Problem of the Day
During a trip, Herman spent $82.95 on gifts. He spent about $80 on food and about $20 in taxicab fares. He spent $12 in admissions to the museums. Of these money amounts, which are exact amounts? Which are estimates?

Quick Review
Write the number.
1. six hundred eighty-two
2. four thousand three hundred

Lesson Quiz
Tell how each word is used. Write position, count, measure, or label.
1. Alma lives at 441 State Street.
2. Julio weighs 82 pounds.
3. The box has 100 sheets of paper.
4. Jane was the first to finish.
Problem of the Day
Keisha remembers the three digits of her friend Jill’s address. They are 4, 6, and 1. What are six possible numbers for Jill’s address?

Quick Review
Find the missing number in each pattern.
1. 208, 308, ___ 508, 608
2. 854, 844, 834, 824, ___
3. 1,270, 1,280, 1,290, ___
4. 12,212, 12,211, 12,210, ___

Lesson Quiz
1. Write 470 thousand, 709 in three other ways.
Problem of the Day
Matt is thinking of a three-digit even number. The tens digit is twice as great as the ones digit. The hundreds digit is twice as great as the tens digit. The sum of the digits is 14. What number is Matt thinking of?

Quick Review
Identify the value of the digit 6 in each number.
1. 365,128
2. 106,972
3. 613,814
4. 145,762
5. 379,609

Lesson Quiz
Juan, Abby, Lisa, and Miko were having cold drinks. They chose these four drinks: iced tea, lemonade, orange juice, and milk. Juan does not like sweet drinks. Miko did not choose lemonade. Abby chose iced tea. Which drink did each person choose?
Problem of the Day
Use the digits 2, 5, 8, 4, 9, and 6 once each to form the greatest number you can. Then use all of them to form the smallest number you can. What are your numbers?

Quick Review
Give the value of each underlined digit.
1. 3,685
2. 42,477
3. 128,904
4. 602,827
5. 586,004

Lesson Quiz
1. How many tens are there in 100?
2. How many thousands are there in 100,000?
3. How many hundreds are there in 10,000?
4. How many hundreds are there in 100,000?
Problem of the Day
Frida the Frog was sitting at 500 on a number line. She hopped forward 8 times, moving 100 numbers to the right each time. What number was she resting on?

Quick Review
Add 1,000 to each number.
1. 7,000
2. 70,000
3. 550,500

Lesson Quiz
1. Write 5,208,042 in expanded form.
2. Write 5,208,042 in short word form.
3. Write 5,278,042 in word form.
Problem of the Day
Nia has 521 stamps in her collection. Frida has 498 stamps in her collection. How many more stamps does Frida need in order to have more stamps than Nia?

Quick Review
Write the numbers in order from least to greatest.
1. 55 82 64
2. 198 189 199
3. 3,021 3,213 3,312

Lesson Quiz
Compare. Write >, <, or = for each.
1. 9,899 □ 9,898
2. 75,004 □ 75,004
3. 45,789,030 □ 45,789,303
4. 5 ten thousands □ 50 thousands
Problem of the Day
I am the greatest five-digit even number.
What number am I?

Quick Review
Find the missing number.
1. 18 – 9 = □
2. 7 + □ = 15
3. 3 × 7 = □
4. 40 ÷ 8 = □
5. 600 – □ = 200

Lesson Quiz
Write the numbers in order from least to greatest.
1. 560,824 560,428 560,482

2. 4,791,590 4,792,005 4,792,019

3. 384,560,248 384,065,248 394,520,238
Problem of the Day
Sari has two coins that equal 30¢. One of the coins is not a nickel. What coins does Sari have? Explain.

Quick Review
Compare using >, <, or =.

1. 2,253 ___ 2,197
2. 40,269 ___ 40,300
3. 456,789 ___ 456,790
4. 678,670,345 ___ 678,670,345
5. 19 thousands ___ 1,900

Lesson Quiz
Tom has 1 twenty-dollar bill, 1 ten-dollar bill, 3 five-dollar bills, 3 one-dollar bills, 3 quarters, 12 dimes, and 9 nickels. Does he have enough money to buy a $50.00 radio? How much does Tom have?
Problem of the Day
Don decides to collect his loose change. He will put half into his piggy bank, and spend the rest. He gathers up 5 quarters, 11 dimes, and 15 pennies. What coins should he put in his bank?

Quick Review
Which is the greater amount?
1. $27.38 or $27.29
Which is the greatest amount?
2. $556.78 $567.00 $498.99

Lesson Quiz
Eric and Omar went to a ball game. Each bought a cap for $12.89. Eric used a ten-dollar bill and a five-dollar bill to pay for his cap. Omar paid for his cap with a twenty-dollar bill. How much change did each boy receive?
Problem of the Day
How many different coin combinations are there that make exactly 33¢? Make a list to find out. 
_HINT_: There are more than 10!

Quick Review
Write the value of the underlined digit.
1. 124,798
2. 593,146
3. 4,873,612
4. 308,671,546

Lesson Quiz
Round each number to the place of the underlined digit.
1. 32,145
2. 47,508
3. 6,231,588

Round to the nearest ten cents. Then round to the nearest dollar.
4. $7.85
5. $548.34
Problem of the Day
Ann returned a library book 6 days after it was due. The fine for overdue books is 25¢ per day. Ann paid her fine with a $5 bill. How much change did she receive?

Quick Review
Round to the place of the underlined digit.
1. 74,309
2. 688,717

Lesson Quiz
The graph shows results from votes on favorite zoo animals. Use it to answer the questions below.

1. Which animal was most popular?
2. About how many votes did the hippo get?
Problem of the Day
I am a number. I have four digits. My thousands digit is half my tens digit. My ones digit is half my thousands digit. The sum of my digits is 17. What number am I?

Quick Review
Compare. Write > or <.
1. 3,892 ___ 3,829
2. 234 ___ 342
3. 16,000 ___ 15,999
4. 5,462 ___ 5,562
5. 835,001 ___ 835,010

Lesson Quiz
Complete each sentence. Tell which property you used.
1. 35 + 82 = 82 + ___
2. 53 + 0 = ___
3. (23 + 7) + 5 = 23 + ___
4. 9 − 0 = ___
Problem of the Day
Write all the three-digit numbers you can make with these digits: 2, 4, and 9. Then place the three-digit numbers in order from least to greatest.

Quick Review
Round each number to its greatest place.
1. 23,798
2. 26,401
3. 142,759
4. 172,325
5. 2,678,109

Lesson Quiz
Use mental math to solve.
1. 56 + 29
2. 112 + 109
3. 78 + 86
4. 281 − 48
5. 214 + 597
6. 153 − 35
Problem of the Day
I am a four-digit number. When rounded to the nearest thousand I round to 2,000. When rounded to the nearest hundred, I round to 2,400. When rounded to the nearest ten, I round to 2,480. What is the least number that I could be?

Quick Review
Round each number.
1. 256 to the nearest 100
2. 282 to the nearest 10
3. 4,977 to its greatest place
4. 5,961 to the nearest 100
5. $27.22 to the nearest dollar

Lesson Quiz
Round each number to the greatest place value. Then estimate.
1. 58 + 31
2. 167 + 356
3. 586 − 344
4. 8,662 − 2,902
Problem of the Day
Ten-year-old Dan has two sisters. Meg is 3 years younger than her sister. Jeanne’s age is half her brother’s age. How old is each child?

Quick Review
Use clustering to estimate the sum.
1. 63 + 68 + 57
Use front-end estimation to find the sum.
2. 78 + 53

Lesson Quiz
Tell whether you need an estimate or an exact answer:
1. Paul needs $250 to buy a new printer for his computer. He has $52 saved already. He wants to know how much more money he needs to save. Does he need an exact answer or an estimate? Explain.
Problem of the Day
For the 3-game series, attendance at the stadium was 37,893, 41,006, and 42,243. Estimate the total attendance for the series in two different ways.

Quick Review
Add. Use mental math.
1. 49 + 37
2. 28 + 45 + 72
3. 33 + 66
4. 62 + 13 + 87
5. 44 + 197

Lesson Quiz
Add.
1. 281 + 55
2. 304 + 63
3. $823 + $81
4. 749 + 750
5. 23,987 + 5,982
Problem of the Day
How many times can you subtract 117 from 800? Use your number sense and estimation skills to make a guess. Then check your guess using a calculator.

Quick Review
Add.
1. 419 + 57
2. 258 + 425
3. 833 + 656
4. 1,362 + 813
5. $244.69 + $19.57
6. 1,803 + 538 + 4,009

Lesson Quiz
Subtract.
1. 423 − 350
2. 354 − 63
3. $82.43 − $68.21
4. 7,449 − 3,965
Problem of the Day
Herman had 70,000 frequent flyer miles. He used 25,000 of them for a free trip to Mexico and 18,000 for a free trip to Washington. Does he have enough frequent flyer miles left to take a trip that uses 28,000 miles?

Quick Review
Give the value of the 4 in each number.
1. 419
2. 4,258
3. 23,041
4. 41,362
5. $241.87
6. 3,452,029

Lesson Quiz
Subtract.
1. 403 – 360
2. 301 – 83
3. $802.25 – $68.01
4. 7,049 – 2,960
Problem of the Day
Alex bought a shirt for $12.98 and a pair of shorts for $14.49. Tax on these items was $1.72. He gave the cashier two $20 bills. How much change did he receive?

Quick Review
Compare. Write >, <, or = for each ■.
1. 426 ■ 462
2. 3,004 ■ 2,999
3. 32,758 ■ 8,992
4. 300 + 500 ■ 755
5. 577 + 4,652 ■ 2,005 + 3,775

Lesson Quiz
Add or subtract. Estimate to check.
1. 344,203 − 336,030
2. 72,301 + 839
3. $82.45 − $68.61
4. 17,049 + 238,907
Problem of the Day
Ben is thinking of an odd number. If you add its digits, the sum is 9. If you subtract its digits, the difference is 1. If you multiply its digits, the product is 20. What is the number?

Quick Review
Add or subtract.
1. \( 6,578 + 2,023 \)
2. \( 83,042 - 44,606 \)
3. \( $75.18 + $9.05 \)
4. \( $50.00 - $13.84 \)

Lesson Quiz
Compare. Write >, <, or = in the \( \_ \_ \_ \). 
1. \( 7 \div 1 \_ \_ \_ 1 \times 7 \)
2. \( 9 \times 3 \_ \_ \_ 9 \div 3 \)
3. \( 43 \times 0 \_ \_ \_ 43 \times 0 \)
4. \( 33 \div 33 \_ \_ \_ 1 \times 3 \)
Problem of the Day
The custodian is setting up chairs for a meeting of 36 people. He wants to use at least 3 rows, but not more than 6 rows. What choices does he have?

Quick Review
Compare. Write $>$, $<$, or $=$ in the $\square$.
1. $13 \div 13 \square 1 \times 1$
2. $5 \times 1 \times 0 \square 1 \times 5 \times 1$

Lesson Quiz
Write the fact family for each set of numbers.
1. 2, 4, 8
2. 3, 8, 24
3. 2, 7, 14
4. 9, 9, 81
Problem of the Day

Thad gave these clues for a mystery number:
It is a multiple of 8. Its digits, which add up to 11, appear in counting order. What is Thad’s mystery number?

Quick Review

Write the fact family for each set of numbers.
1. 6, 7, 42
2. 9, 6, 54
3. 7, 7, 49

Lesson Quiz

1. What is a square number? Give an example.
2. What are five multiples of 7?
Problem of the Day
Eleanor is making a calendar for the month of October. How many times will she write the digit 2 (not counting any 2s that appear in the year)?

Quick Review
Find the product.
1. $1 \times 1 = \underline{\hspace{2cm}}$
2. $3 \times 3 = \underline{\hspace{2cm}}$
3. $5 \times 5 = \underline{\hspace{2cm}}$
4. $6 \times 6 = \underline{\hspace{2cm}}$
5. $7 \times 7 = \underline{\hspace{2cm}}$

Lesson Quiz
Multiply or divide.
1. $4 \times 8$
2. $28 \div 4$
3. $2 \times 9$
4. $21 \div 3$
5. $35 \div 5$
Problem of the Day
Fredo wants to send picture postcards to his two best friends. The postcards he likes cost 15¢ each, and stamps cost 23¢ each. How much will it cost Fredo to buy and send the two postcards?

Quick Review
Complete each number sentence.
1. 8 ÷ □ = 8
2. 36 ÷ 4 = □
3. □ ÷ 4 = 6
4. 21 ÷ □ = 7
5. □ ÷ 3 = 8

Lesson Quiz
Multiply or divide.
1. 7 × 8
2. 64 ÷ 8
3. 9)90
4. 42 ÷ 7
5. 9 × 6
Problem of the Day
What is the product of $9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 \times 0$?

Quick Review
Multiply or divide.
1. $9 \times 7$
2. $72 \div 8$
3. $6)60$
4. $49 \div 7$
5. $8 \times 7$

Lesson Quiz
Multiply or divide.
1. $9 \times 11$
2. $12 \times 8$
3. $8)88$
4. $110 \div 10$
5. $12 \times 10$
Problem of the Day
In this number sentence, replace each ♥ with the same number. What number is it?
♥ \times ♥ = 30 + ♥

Quick Review
Add.
1. 5 + 8 + 2
2. 4 + 9 + 6
3. 4 + 0 + 3 + 7
4. 80 + 80 + 20
5. 25 + 3 + 25

Lesson Quiz
Find each product.
1. 7 \times 3 \times 2
2. 5 \times 1 \times 9
3. 4 \times 4 \times 4
4. 2 \times 6 \times 3
5. 10 \times 3 \times 2
Problem of the Day
The fourth grade at Bell Top School is taking a trip. Eight adults and 45 children are going by van. Each van has 12 seats. How many vans are needed so that everybody has a seat?

Quick Review
Subtract.
1. 135 – 89
2. 101 – 56
3. 414 – 108
4. 762 – 590
5. 800 – 387

Lesson Quiz
Divide. Write the remainder.
1. 26 ÷ 4
2. 7)50
3. 39 ÷ 6
4. 8)79
5. 90 ÷ 11
Problem of the Day
Tia went gift shopping. She bought 1 diary, 4 scarves, and 3 wallets. The wallets cost $9 each, the scarves were $7.50 each, and the diary was $5.99. What was the total cost of Tia’s purchase?

Quick Review
Multiply or divide.
1. \(54 \div 6\)
2. \(12 \times 6\)
3. \(11 \div 88\)
4. \(9 \times 4\)
5. \(107 \times 1\)

Lesson Quiz
Solve. Explain why you chose each operation.
1. Mary bought 3 cartons of eggs. Each carton holds 1 dozen eggs. How many eggs did Mary buy?
2. Nico bought 30 toys for party favors. If he has 10 guests at his party, how many toys will each guest get?
Problem of the Day
Kim had $40 when she left for the city. She spent $9.50 on a round-trip train fare. She bought juice for $1.50 and a magazine for $3. She bought two scarves, for $4.95 each. Did she have enough money left to buy a $15 hat?

Quick Review
Solve mentally. Do the operations from left to right.
1. $7 \times 8 - 12$
2. $24 \div 3 + 6$

Lesson Quiz
Simplify. Follow the order of operations.
1. $(4 \times 7) + 6$
2. $16 - (3 \times 5)$
3. $6 \times (8 - 5) + 7$
4. $3 \times 7 - 4 + 3$
5. $32 \div 4 \times 3 + 7$
Problem of the Day
Vijay knows the newsstand price of a daily paper. He knows the cheaper weekly subscription rate. How can he find how much money he saves each week by having a subscription rather than buying the paper at a newsstand each day?

Quick Review
Simplify. Follow the order of operation.
1. \(12 - 3 + 6\)
2. \((8 - 2) \times 5 + 5\)
3. \((12 + 4) \div 8 + 2\)

Lesson Quiz
Evaluate each expression for \(n = 8\).
1. \(5n\)
2. \(n + 7\)
3. \(12 - n\)
4. \(n - 3\)
5. \(3n - 4\)
Problem of the Day
The sum of the ages of Luis, Luisa, and Lisa is 24. Lisa is the oldest. She is 4 years older than Luis, who is twice as old as Luisa. How old is each child?

Quick Review
Let $n$ stand for the number of model ships in Alex’s collection. Write an expression for each of the following:
1. 4 fewer model ships than in Alex’s collection
2. 3 times the number of model ships in Alex’s collection

Lesson Quiz
Compare the expressions. Write equation or inequality for each pair.
1. $12 + 5$ and $2 \times 7 + 3$
2. $24 \div 8$ and $1 + 3$
3. $(2 + 8) \div 2$ and $4 + (1 \times 1)$
Problem of the Day
Today, the sum of the ages of Anna and her mother is 45. Anna’s mother is four times as old as Anna. How old will each be on her next birthday?

Quick Review
Let \( n = 4 \). Write \( = \) or \( \neq \) for each ■.
1. \( 5 + (12 - 7) \) ■ \( 2 + n \times 2 \)
2. \( (15 - 6) \times n \) ■ \( (16 \div 2) \times 4 \)
3. \( 8 + n \) ■ \( 3n \)
4. \( 3 \times (4 + n) \) ■ \( 3n + n \)

Lesson Quiz
Solve and check each equation.
1. \( y + 7 = 12 \)
2. \( w \div 2 = 6 \)
3. \( 24 = 4n \)
4. \( 8 + m = 30 \)
Problem of the Day
Will and Rita brought money with them to spend at the fair. Will had $6.60 more than Rita. Rita had 3 dollars, 2 quarters, 4 dimes, and 2 nickels. How much money did Will bring to the fair?

Quick Review
Write an equation for each sentence.
1. Four times a number is 20.
2. A number subtracted from 15 is 7.

Lesson Quiz
Write an equation to solve each problem.
1. There are 26 members of the student council. Fourteen of them are girls. How many are boys?
2. Inez has 12 coins. All are dimes and quarters. She has 3 times as many dimes as quarters. How many quarters does she have?
Problem of the Day
Ta went grocery shopping. He bought a loaf of bread for $2 and four boxes of cereal for $3.50 a box. He also bought two half-gallons of milk for $1.50 each. He paid with a $20 bill. How much change should he have gotten?

Quick Review
Solve. Use mental math.
1. $4 \times 9$
2. $(3 \times 5) + 15$
3. $8 + 18 + 2$
4. $(12 - 7) \times 6$

Lesson Quiz
1. Ben works 5 hours a day at his job. How many hours does he work in 2 days? In 4 days? In 9 days?
2. For every fish that Quentin catches, Erin catches 3. How many fish would Quentin catch if Erin catches 6? If she catches 9? If she catches 24?
Problem of the Day
In the year 2000, Matt earned $40,000. His boss promised him a $4,000 raise each year after that. Elise earned $44,000 that year. She was promised a raise of $3,000 each year after that. In what year will Matt and Elise earn the same amount? How much will that be?

Quick Review
Solve. Use any strategy.
1. Angela earns $9 an hour. How much will she earn in 6 hours?
2. For Angela to earn $900, how many hours must she work?

Lesson Quiz
Solve. Explain your solution.
Rich spent $8.75 on DVD rentals. Carmela spent about 3 times as much. About how much did Carmela spend?
Problem of the Day
Complete each pattern.
0, 20, 40, 60, ___, ___,…
0, 150, 300, 450, ___, ___,…
1,000, 3,000, ___, 7,000, ___,…

Quick Review
Use mental math to solve.
1. \(5 \times 4 + 5 = \) __
2. \(3 \times 8 + 6 = \) __
3. \(3 \times 10 + 7 = \) __
4. \(2 \times 7 \times 5 = \) __

Lesson Quiz
Find each product.
1. \(3 \times 300 = \) __
2. \(2 \times 700 = \) __
3. \(4 \times 2,000 = \) __
4. \(6 \times 5,000 = \) __
Problem of the Day
There are 30 baseball cards in a pack. Mr. Rojas bought 3 packs each for his son’s eight friends who were at his birthday party. Packs cost $2. How many cards did Mr. Rojas buy in all? What was the total cost?

Quick Review
Round each number as indicated.
1. 2,456 to nearest 1,000
2. 54 to nearest 10
3. 522 to nearest 100
4. $77.77 to nearest dollar

Lesson Quiz
Estimate each product by rounding to the greatest place value.
1. 5 × 68
2. $3.70 × 2
3. 186 × 5
4. 7,592 × 6
5. 9 × $46.50
Problem of the Day
The product of 7 and one of the following numbers is 2,842:

398, 400, 406, 506, 4,006

Use estimation, number sense, and mental math to choose the number. Explain your thinking.

Quick Review
Find each product. Use mental math.
1. $4 \times 8$
2. $4 \times 80$
3. $5 \times 9$
4. $5 \times 90$
5. $90 \times 5$

Lesson Quiz
Use base-ten blocks to find each product.
1. $4 \times 16$
2. $3 \times 27$
3. $5 \times 18$
4. $7 \times 12$
Problem of the Day
Be careful! This problem contains extra information and hidden information:

Tanya and her 7 teammates are raising money for field hockey team uniforms. The girls have raised an average of $37 each so far. They need to raise a total of $395. To the nearest ten dollars, how much money does each girl need to raise to meet that goal, if each raises the same amount?

Quick Review
Estimate each product by rounding the greater factor to its greatest place.
1. $7 \times 43$
2. $5 \times 28$
3. $4 \times 3.87$
4. $2 \times 84$

Lesson Quiz
Estimate. Then multiply.
1. $27 \times 4$
2. $32 \times 3$
3. $16 \times 7$
4. $39 \times 6$
Problem of the Day
There were 24 students in each of 9 rows in the auditorium to see a play. Before the play began, 3 students left to go to the nurse and twice as many as that went with a teacher on an errand. How many students were in the auditorium when the play started?

Quick Review
Find the answer.
1. $4 \times 37$
2. $6 \times 300$
3. $8 \times 87$
4. $8 \times 6 \times 4$

Lesson Quiz
1. Inez is 6 years older than her brother. Together, their ages total 20. How old is Inez? How old is her brother?
2. The product of two numbers is 36. Their difference is 9. What are the numbers?
Problem of the Day
Mei’s goal was to sell 600 candles during the three days she worked her booth at the crafts fair. She sold 188 the first day and the third day. On the second day she sold 233 candles. Did she meet her goal?

Quick Review
Quickly write the answer to these basic facts.
1.  $7 \times 18 =$
2.  $6 \times 29 =$
3.  $8 \times 26 =$
4.  $3 \times 47 =$

Lesson Quiz
Estimate. Then multiply.
1.  $278 \times 4 =$
2.  $327 \times 3 =$
3.  $165 \times 7 =$
4.  $809 \times 8 =$
5.  $392 \times 6 =$
Problem of the Day
Marisol emptied out her jar of coins. She had 44 pennies, 157 nickels, and 88 dimes. She had 9 quarters. What is the value of all the coins in Marisol’s jar?

Quick Review
Find each product.
1. $7 \times 8$
2. $7 \times 80$
3. $7 \times 800$
4. $7 \times 8,000$

Round each number.
5. 4,822 to the nearest thousand
6. 36,289 to the nearest ten thousand

Lesson Quiz
1. In each of Lowe High’s 5 home football games, there were 1,435 people in attendance. What was the total attendance?
Problem of the Day
Hallie is ordering clay beads for her crafts shop. They come in bags of 25. There are 10 bags of 25 to a carton, and 20 cartons to a case. How many clay beads will Hallie get if she orders 2 cases?

Quick Review
Find the product.
1. $5 \times 7$
2. $3 \times 8$
3. $8 \times 6$
4. $4 \times 9$
5. $6 \times 7$

Lesson Quiz
Use basic facts and patterns to find each product.
1. $70 \times 70$
2. $400 \times 30$
3. $9,000 \times 70$
4. $60 \times 50$
5. $800 \times 60$
6. $6,000 \times 70$
Problem of the Day
Ramon earns 5¢ for each metal can he recycles. If he collects and recycles 500 cans, will he have enough money to buy a DVD for $22.95? Explain.

Quick Review
Round each number to the nearest ten and to the nearest hundred.
1. 327
2. 462
3. 941
4. 5,088
5. 6,673

Lesson Quiz
Estimate each product.
1. $65 \times 82$
2. $31 \times 926$
3. $39 \times 7,654$
4. $22 \times $38.07$
5. $378 \times 72$
Problem of the Day
Analyze and write in order the following three quantities from least to greatest: 10 dozen tens, 1 dozen hundreds, and 100 dozens.

Quick Review
Find each product using mental math.
1. \(20 \times 30\)
2. \(60 \times 50\)
3. \(40 \times 70\)
4. \(30 \times 90\)
5. \(80 \times 80\)

Lesson Quiz
Use models and the Distributive Property to find each product. Record your work.
1. \(16 \times 24\)
2. \(41 \times 13\)
3. \(25 \times 32\)
Problem of the Day
When he is asleep, Jonah’s heart beats 60 times each minute. If Jonah takes a nap for a half-hour, about how many times will his heart beat?

Quick Review
Use mental math and patterns to multiply.
1. $400 \times 80$
2. $110 \times 70$
3. $7,000 \times 80$
4. $1,200 \times 40$
5. $5,000 \times 60$

Lesson Quiz
Multiply.
1. $89 \times 30$
2. $62 \times 53$
3. $47 \times 82$
4. $\$43 \times 12$
5. $44 \times 25$
Problem of the Day
Meg is planning a party to raise money for the library. She has invited 53 guests. If she hopes to raise about $2,000, what is a reasonable donation to ask of each guest? Explain.

Quick Review
Find the product.
1. $32 \times 16$
2. $28 \times 23$
3. $40 \times 33$
4. $61 \times 50$
5. $74 \times 25$

Lesson Quiz
Clem buys 4 birthday cards for $2.32 each. He pays with a $10 bill. Will his change be more or less than $1? Explain.
Problem of the Day
Find the missing digits.

\[ \begin{array}{c}
5\spadesuit 7 \\
\times \spadesuit 3 \\
\hline
1641 \\
49230 \\
50,871
\end{array} \]

Quick Review
Find the product.

1. \( 54 \times 32 \)
2. \( 71 \times 38 \)
3. \( 60 \times 87 \)
4. \( \$92 \times 46 \)
5. \( 300 \times 700 \)

Lesson Quiz
Multiply. Estimate to make sure your answer is reasonable.

1. \( 643 \times 25 \)
2. \( 307 \times 64 \)
3. \( \$1.79 \times 44 \)
Problem of the Day
All-day passes to a theme park cost $23.75 for students and $29.00 for adults. Lola’s class hopes to raise enough money to go. How much money must they raise to pay for 27 students and 4 adults?

Quick Review
Multiply. Estimate to make sure your answer is reasonable.
1. 538
   \[ \times 16 \]
2. 409
   \[ \times 43 \]
3. $2.16
   \[ \times 57 \]

Lesson Quiz
Multiply. Estimate to check your work.
1. $25.43
   \[ \times 54 \]
2. 8,263
   \[ \times 13 \]
3. 19,063
   \[ \times 26 \]
Problem of the Day
What are the next two numbers in the pattern below?
80, 40, 20, ___, ___.

Quick Review
Write the number for each.
1. 1 ten, 5 ones
2. 2 tens, 3 ones
3. 3 tens, 4 ones
4. 1 ten, 9 ones
5. 4 tens, 8 ones

Lesson Quiz
Martha’s mom baked 45 cookies and divided them equally into 2 boxes.
1. How many cookies were in each box?
2. Were there any leftover cookies?
   If so, how many?
Problem of the Day
Mark and 3 friends earned $25 for raking leaves. They will split the money equally. How many dollars will they each receive? Will they have to split any dollars? Explain.

Quick Review
1. $9 \div 3 = $
2. $4 \times 2 = $
3. $8 \div 4 = $
4. $2 \times 2 = $
5. $6 \div 2 = $

Lesson Quiz
Divide. Tell if there is a remainder.
1. $37 \div 3$
2. $28 \div 2$
3. $4)85$
4. $5)58$
Problem of the Day
Sara has 3 coins in her pocket with a total value more than 10¢ and less than 20¢. What coins might Sara have in her pocket?

Quick Review
Use mental math to add or subtract.
1. 33 + 27
2. 68 − 11
3. 88 + 92
4. 79 − 43

Lesson Quiz
For every 5 cereal box labels that Tom collects, he can get a free pack of sports stickers.
1. Tom has 58 cereal box labels. How many packs of stickers can he get?
2. How many extra labels will he have left?
Problem of the Day
There are 38 students in a marching band. They form 3 equal rows by having as many students as they can in each row. The rest of the students are lined up in front of the rows. How many students are in front of the 3 rows?

Quick Review
Identify the value of the digit 5 in each number.
1. 365,782
2. 15,370,040
3. 6,152,099
4. 78,508,674

Lesson Quiz
Divide. Check your answers.
1. $57 \div 2 =$
2. $83 \div 3 =$
3. $6 \overline{)70}$
4. $4 \overline{)76}$
Problem of the Day
You can buy posters at the bookstore for $8 each or 3 posters for $22. How much will 5 posters cost?

Quick Review
Copy and complete the function table.
\[ m = 2n + 6 \]

<table>
<thead>
<tr>
<th>n</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

Lesson Quiz
Divide.
1. \[ 600 \div 3 = \]
2. \[ 250 \div 5 = \]
3. \[ 3,600 \div 6 = \]
4. \[ 2,400 \div 4 = \]
Problem of the Day
A bag of Florida oranges contains 3 more oranges than a bag of Florida grapefruits. There are a total of 21 pieces of fruit in the two bags. How many oranges are in the bag?

Quick Review
1. 480 ÷ 6 =
2. 630 ÷ 9 =
3. 270 ÷ 3 =
4. 240 ÷ 4 =

Lesson Quiz
Estimate. Write the basic fact you used.
1. 7)152
2. 8)418
3. 2)141
4. 375 ÷ 6 =
5. 249 ÷ 5 =
Problem of the Day
Gary’s block has 6 streetlights. If there is a streetlight at each end of his block, and streetlights every 50 yards, how long is Gary’s block?

Quick Review
Divide.
1. \(55 \div 5\)
2. \(86 \div 2\)
3. \(60 \div 3\)
4. \(8,100 \div 9\)
5. \(35,000 \div 7\)

Lesson Quiz
Divide. Check your answers.
1. \(4)845\)
2. \(347 \div 3\)
3. \(2)908\)
4. \(714 \div 5\)
5. \(6)987\)
Problem of the Day
A shop sells erasers in sets of 5 or 12. One day, Sam bought exactly 99 erasers in more than 10 sets. How many of each kind of eraser set must Sam have picked?

Quick Review
Find the missing number.
1. $6 \times \square = 240$
2. $3 \times \square = 180$
3. $8 \times \square = 400$
4. $\square \times 8 = 560$
5. $\square \times 5 = 450$

Lesson Quiz
Divide. Check your answers.
1. $6 \div 275$
2. $7 \div 418$
3. $8 \div 496$
Problem of the Day
Elon bought 2 quarts of strawberries for $2.69 each, 5 pounds of potatoes for $0.49 a pound, and a gallon of milk for $2.75. How much change should he receive from $20.00?

Quick Review
Find the product.
1. $8 \times \$0.87$
2. $4 \times \$3.62$
3. $5 \times \$6.15$
4. $6 \times \$10.09$
5. $3 \times \$37.44$

Lesson Quiz
Estimate. Then divide.
1. $39 \div 3$
2. $7.98 \div 6$
3. $7)\underline{4.34}$
4. $4)\underline{8.64}$
5. $5)\underline{1.30}$
Problem of the Day
Sasha bought 3 greeting cards, each for the same price. He paid with a $20 bill. His change was two $5 bills, 3 quarters, and 1 dime. How much did each card cost?

Quick Review
Estimate. Then divide.
1. $77 ÷ 7
2. $5.32 ÷ 4
3. 6)$4.02
4. 3)$9.69
5. 8)$2.96

Lesson Quiz
Divide. Check your answers.
1. 4)$523
2. 2)$2.06
3. 5)$754
4. 637 ÷ 9
5. 747 ÷ 7
Problem of the Day
Paula raises poodles. She sold 2 poodle puppies each to 5 families. She sold 1 puppy each to 4 families. She kept the perkiest 6 puppies. How many poodle puppies did Paula start out with?

Quick Review
Solve.
1.  \( n + 462 = 900 \)
2.  \( 785 \div z = 157 \)
3.  \( 11 \times m = 121 \)
4.  \( k - $7.53 = $40.59 \)
5.  \( 5,400 \div w = 60 \)

Lesson Quiz
Work backward to solve.
1. Rex has a secret number. If he divides it by 4 and then multiplies the quotient by 5, he gets 135. What is Rex’s secret number?
Problem of the Day
The 8 key on Jan’s calculator is broken. Jan wants to use her calculator to divide 5,344 by 8. How can Jan use her calculator to find the quotient?

Quick Review
Divide. Check your answers.
1. $6\overline{)876}$
2. $748 \div 8$
3. $5\overline{)634}$
4. $899 \div 4$
5. $3\overline{)9.18}$

Lesson Quiz
Estimate. Then divide.
1. $13,682 \div 6$
2. $4\overline{)27,051}$
3. $67.45 \div 5$
4. $9\overline{)81,713}$
Problem of the Day
I am a multiple of 5 and 7. I am less than 40, but greater than your age. What number am I?

Quick Review
Solve.
1. $5 \times 7$
2. $8 \times 6$
3. $4 \times 30$
4. $3 \times 700$
5. $2 \times \_ \_ = 14$
6. $6 \times \_ \_ = 54$

Lesson Quiz
1. List the first three common multiples of 2 and 5.
2. List the factors of 12.
3. List the factors of 24 that are also factors of 12.
4. Which factors of 24 are not factors of 12?
Problem of the Day
Jerome takes piano lessons every other day. He does volunteer work every third day. Every fourth day, he goes bowling. Today he does each of these activities. In how many days will this happen again?

Quick Review
List the factors of each number.
1. 8
2. 14
3. 20
4. 18
5. List the first 10 multiples of 3 and 8.
   Circle the common multiples.

Lesson Quiz
Tell whether each number is prime or composite. If it is composite, list its factors
1. 41
2. 57
3. 17
4. 40
Problem of the Day
Four students are in line. In how many different ways can they arrange themselves? How many ways are there if Jamaal is always first in line?

Quick Review
Solve.
1. $4 \times 3 \times 2$
2. $1 \times 200 \times 3$
3. $(2 \times 6) + (2 \times 4)$
4. $(4 \times 300) - (3 \times 400)$

Lesson Quiz
Solve.
1. There are 8 people at a dinner. Each person shakes hands with every other person. How many handshakes is that?
2. Five 12-inch square patches are sewn together end-to-end to make a table runner. What is the distance around the rectangle they form, in feet?
Problem of the Day
Suppose there are 8 drops of ink in a blob, 15 blobs in a glob, and 10 globs in a flob. How many drops of ink are in 10 flobs?

Quick Review
Find the missing addend.
1. $3 + \_ + 4 = 10$
2. $8 + \_ + 5 + 3 = 20$
3. $14 + 3 + \_ + 17 = 40$
4. $40 + \_ + 80 + 30 = 200$

Lesson Quiz
Find the average of the numbers in each group.
Use counters.
1. 6, 10
2. 4, 8, 12
3. 3, 3, 6
4. 5, 6, 5, 8
5. 8, 7, 6, 7
6. 4, 7, 9, 2, 3
Problem of the Day
Mei attends dance class every Saturday. She is in class today, Saturday, September 8. What will be the date of her last dance class this month?

Quick Review
The average of each group of numbers is 8. Find the missing number in each group.

1. 7, ___
2. 5, ____ , 12
3. 8, 6, ____ , 14
4. 3, 13, ___
5. 9, 11, 3, ____ , 7, 12

Lesson Quiz
Find the average of the numbers in each group.

1. 2, 5, 5
2. 12, 9, 12
3. 40, 70, 10
4. 4, 9, 7, 12
5. $3, $20, $4
6. 13, 244, 43
Problem of the Day
If you multiply the mystery number by itself, the product is 4,096. What is the mystery number?
Hint: Use number sense and guess and check to find out.

Quick Review
Find each quotient.
1. \(800 \div 2\)
2. \(600 \div 2\)
3. \(900 \div 3\)
4. \(6,000 \div 4\)
5. \(4,000 \div 8\)

Lesson Quiz
Divide. Use basic facts to help.
1. \(500 \div 50\)
2. \(900 \div 30\)
3. \(600 \div 20\)
4. \(8,000 \div 40\)
5. \(10,000 \div 50\)
Problem of the Day
In how many different ways can you make change for a dollar using any combinations of coins without using any kind of coin more than 4 times? Hint: Make an organized list of combinations.

Quick Review
Find the value of $n$ to solve each equation.
1. $360 \div n = 90$
2. $3,200 \div n = 80$
3. $20,000 \div n = 500$
4. $28,000 \div n = 400$

Lesson Quiz
Use a new dividend and a new divisor to estimate the quotient.
1. $88 \div 31$
2. $355 \div 39$
3. $544 \div 62$
4. $418 \div 71$
Problem of the Day
Tonya has the following numbers of baseball cards in different places in her room: 34, 20, 37, 46, and 26. She plans to gather them all and then divide them evenly among her 18 nieces and nephews. Estimate the number she can give to each.

Quick Review
Find each quotient.
1. $320 \div 8$
2. $366 \div 6$
3. $275 \div 5$
4. $738 \div 9$

Lesson Quiz
Use models to divide.
1. $22)\underline{67}$
2. $31)\underline{84}$
3. $15)\underline{107}$
4. $13)\underline{156}$
5. $17)\underline{118}$
Problem of the Day
Manuela wants to divide 482 by 92 on her calculator. But the division key is broken. How can she use the broken calculator to find the quotient?

Quick Review
Find each quotient.
1. \(48 \div 6\)
2. \(68 \div 8\)
3. \(55 \div 9\)
4. \(223 \div 4\)
5. \(322 \div 7\)

Lesson Quiz
Divide. Check your answer.
1. \(68 \div 17\)
2. \(87 \div 41\)
3. \(165 \div 38\)
4. \(523 \div 66\)
5. \(322 \div 73\)
Problem of the Day

Consecutive numbers are numbers in counting order, like 3, 4, and 5, or 49, 50, 51. What are three consecutive numbers whose sum is 111?

Quick Review

Find each quotient.
1. \(82 \div 41\)
2. \(107 \div 15\)
3. \(139 \div 24\)
4. \(96 \div 43\)
5. \(135 \div 22\)

Lesson Quiz

Divide. Check your answer.
1. \(34) \overline{853}\)
2. \(27) \overline{569}\)
3. \(76) \overline{5,478}\)
4. \(897 \div 39\)
5. \(4,663 \div 74\)
Problem of the Day
Katherine and her friends collected fifteen dozen cans of cat food. They wish to donate the cans to 13 agencies that help animals. They want to give each agency the same number of cans. How many will they give each one? How many cans will be left over?

Quick Review
Estimate the tens digit for each of the following:
1. $4 \div 2,510$
2. $27 \div 856$
3. $56 \div 671$
4. $16 \div 849$
5. $38 \div 1,823$
6. $62 \div 1,921$

Lesson Quiz
Estimate. Then divide.
1. $510 \div 39$
2. $839 \div 37$
3. $240 \div 15$
4. $847 \div 26$
5. $759 \div 29$
6. $622 \div 18$
Problem of the Day
Bob’s big dog, Hugo, eats 3 pounds of meat each day. The meat Bob buys costs $2 a pound. How much does it cost to feed Hugo each week?

Quick Review
Solve. Use mental math.
1. $3 \times 300 \times 2$
2. $84 + 50 + 16$
3. $8,000 \div 40$
4. $98 - 60$

Lesson Quiz
Solve.
1. A costume shop sells masks for $4 each or 5 for $15. You want to buy 7 masks. What will be your total cost?
2. Clown noses sell for $6 a bag. There are 3 noses in a bag. You buy 9 noses. You pay with a twenty dollar bill. What is your change?
Problem of the Day
1 foot = 12 inches. How long is your real foot? Is it greater than or less than a foot long? Estimate, then measure to find out.

Quick Review
Write each fraction.
1. one half
2. one fourth
3. three fourths
4. five eighths
5. seven eighths

Lesson Quiz
Measure to the nearest inch, half inch, and quarter inch.

1. 
2. 
3. 
Problem of the Day
Kyle has a 2-foot-long fruit roll. He wants to divide it equally among himself and 2 friends. How long should each piece be?

Quick Review
Estimate, then measure, the length of each item to the nearest inch, half inch, and quarter inch.
1. pencil
2. paper clip
3. drinking straw
4. crayon
5. stapler

Lesson Quiz
Find each missing number.
1. 6 ft = ___ in.
2. 42 ft = ___ yd
3. 90 yd = ___ ft
4. 3 yd = ___ in.
5. 2 miles = ___ ft
Problem of the Day
Amy is draining a 30-gallon fish tank so she can clean it. If the water drains at a rate of 1 pint per second, how long will it take to empty the tank?

Quick Review
Solve for \( n \).
1. \( 48 \div 4 = n \)
2. \( 5 \times n = 80 \)
3. \( 320 \div 8 = n \)
4. \( n \div 6 = 8 \)
5. \( 8 \times 4 \times n = 64 \)

Lesson Quiz
Find each missing number.
1. \( 28 \text{ c} = \text{____ qt} \)
2. \( \text{____ c} = 7 \text{ pt} \)
3. \( 24 \text{ qt} = \text{____ gal} \)
4. \( \text{____ gal} = 40 \text{ qt} \)
5. \( 18 \text{ pt} = \text{____ qt} \)
Problem of the Day
Saffron is the world’s most costly spice. A chef wants to buy a pound of saffron for her restaurant. One dealer sells it at $39 per ounce. Another dealer sells it at $650 per pound. Which is the better buy? Explain.

Quick Review
Find each missing number.
1. 60 in. = ___ ft
2. 2 gal = ___ qt
3. 3 mi = ___ yd
4. 24 pt = ___ gal
5. ___ yd = 1 mi

Lesson Quiz
Compare. Write >, <, or = for each ___.
1. 48 oz ___ 3 lb
2. 5 T ___ 15,000 lb
3. 64 oz ___ 8 lb
4. 1,234 lb ___ \( \frac{1}{2} \) t
5. 10 lb ___ 160 oz
**Problem of the Day**
Kara works for a hockey team. Tickets for hockey games cost $15 each, but she got some free. Kara got enough free tickets to give a pair to each of 7 friends. How many free tickets did Kara get?

**Quick Review**
Solve.
1. $9.45 \div 3$
2. $1,296 - 897$
3. $2.55 \times 34$
4. $77,613 + 402 + 9,014$
5. $706 \div 16$

**Lesson Quiz**
Solve. If not enough information is given, tell what information is needed to solve the problem.
1. Small postcards cost 35¢ each. LeVon bought 8 small postcards and 3 large ones. How much did he spend?
Problem of the Day
Kai lives 3 blocks from school, so he walks. There are 12 houses on each block. Two houses are blue, 5 are gray, 4 are yellow, and 1 is brick. How many houses does Kai pass on his way to school?

Quick Review
Solve for \( n \).
1. \( 44 \times 10 = n \)
2. \( 100 \times 53 = n \)
3. \( 670 \div 10 = n \)
4. \( 54,000 \div 60 = n \)
5. \( 100 \times 1,000 = n \)

Lesson Quiz
Measure the length to the nearest centimeter and millimeter.
1. __________
2. __________________
3. __________
Problem of the Day
A piece of lace is 70 cm long. Its design begins and ends with tiny rosebuds. A rosebud appears every 5 cm along the length of the piece of lace. How many rosebuds are on this piece of lace?

Quick Review
Estimate, then measure the length of each item to the nearest cm and mm.
1. a piece of chalk
2. a marker
3. your smallest finger
4. the height of your math book

Lesson Quiz
Find each missing number.
1. 60 cm = ___ mm
2. 8 km = ___ m
3. 5 dm = ___ cm
4. 6 m = ___ cm
5. 300 mm = ___ cm
Problem of the Day
Omar brought a 250-mL carton of freshly squeezed orange juice for $1.49. Asa bought a half-liter carton of the same juice for $2.98. Which is the better buy?

Quick Review
Use mental math to multiply or divide.
1. 6000 ÷ 6
2. 25 × 100
3. 700 ÷ 70
4. 41 × 1,000
5. 9,000 ÷ 90

Lesson Quiz
Compare. Write >, <, or = for each.
1. 9 mL ○ 9,000 L
2. 32 L ○ 3,200 mL
3. 4 L ○ 4,000 mL
4. 6 L ○ 5,789 mL
5. 875 mL ○ 1 L
Problem of the Day
Ed’s rabbit had a litter of 7 bunnies. The biggest weighed 80 g. Two were 75 g each, 3 were 70 g each, and the tiniest weighed 60 g. After a week, all the bunnies had doubled their mass. What was the total mass of the bunnies after 1 week?

Quick Review
Divide.
1. 10,000 ÷ 2,000
2. 810 ÷ 90
3. 3,600 ÷ 40
4. 42,000 ÷ 6,000
5. 20,000 ÷ 500

Lesson Quiz
Find each missing number.
1. 6 kg = ___ g
2. ___ g = 3 kg
3. 12 kg = ___ g
4. ___ g = 5 kg
5. 10,000 g = ___ kg
**Problem of the Day**
Yolanda is making a calendar for May. She is using individual stickers with the digits 0–9 to show all the dates. How many stickers with the digit 1 will she need? The digit 2? The digit 3?

**Quick Review**
Find each missing number.
1. 5 m = ___ cm
2. 80 dm = ___ m
3. 600 cm = ___ m
4. 2 kg = ___ g

**Lesson Quiz**
Find each missing number.
1. 3 weeks = ___ days
2. 7 decades = ___ years
3. 2 leap years = ___ days
4. 4 centuries 3 decades = ___ years
5. ___ centuries = 900 years
Problem of the Day
An electrical storm caused power outages to all the homes on Jared’s block. His clock stopped at 7:55 A.M. Crews finally restored the power 5 hours 55 minutes later. What time should Jared set his clock to read?

Quick Review
Rename.
1. 3 hundreds 12 tens
2. 5 feet 16 inches

Lesson Quiz
Look at each pair of times. Write how much time has elapsed.
1. Start: 2:20 A.M.  
   End: 7:45 A.M.
2. Start: 10:10 A.M.  
   End: 1:54 P.M.
3. Start: 9:40 P.M.  
   End: 11:08 P.M.
Problem of the Day
Darla’s dad is 4 times older than Darla. Darla’s mom is 3 times older than Darla. The sum of all their ages is 88. Find the age of each person.

Quick Review
Find each missing number.
1. 5 weeks = ___ days
2. 8 decades = ___ years
2. 5 centuries = ___ years

Lesson Quiz
Use Guess and Check to solve each problem.
1. The product of two numbers is 36. The difference between the numbers is 5. What are the numbers?
2. During his first day working at a ferry dock, Reggie collected $225 in $5 and $10 bills. He got half as many of one kind of bill than the other. How many of each kind of bill did Reggie collect?
Problem of the Day
Rajiv looks outside one day to see icicles on the trees. His thermometer says 15°, but he’s not sure if that’s degrees Celsius or Fahrenheit. How can you tell Rajiv which scale it is?

Quick Review
Compute.
1. \(4,307 + 1,296\)
2. \(8,703 - 986\)
3. \(314 \times 27\)
4. \(7,032 \div 9\)
5. \(17)5,432\)

Lesson Quiz
Find the difference between the temperatures.
1. 80°F and 12°F
2. \(-4°C and 13°C\)
3. 77°F and 106°F
4. \(-24°F and −3°C\)
5. 11°C and −38°C
Problem of the Day
Rémi is playing a game on a number line. He starts at 0. He moves forward 6 spaces, back 8 spaces, forward 7 spaces, back 2, forward 3, and back 7. Where is Remi now?

Quick Review
Choose the better estimate of the temperature.
1. ski slope: 27°F or 55°F?
2. hot cocoa: 75°C or 32°C?
3. snowball: 30°C or 30°F

Lesson Quiz
Solve each problem.
1. Suppose it is 24°C inside and −7°C outside. How much warmer it is inside than outside?
2. Eve’s outdoor thermometer reads 11°F. The weather report says that because of strong winds, it will feel like −5°F. What is the wind chill factor?
Problem of the Day
Four boys are waiting in line to buy tickets. Mike is between Jorge and Dan. Dan is between Mike and Kim. Jorge is at the end of the line. Which boy is first in line?

Quick Review
1. $7 + 4 + 3 + 6 = \square$
2. $13 + 0 + 8 + 7 = \square$
3. $5 + 6 + 9 + 4 + 1 = \square$

Lesson Quiz
Use the tally chart to answer these questions.
1. What is the survey question?
2. Which answer was given most often? least often?

<table>
<thead>
<tr>
<th>How Many Children Are In Your Family?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>More than 4</td>
</tr>
</tbody>
</table>
Problem of the Day
Together, Herman’s age and his sister’s age equal 27. Herman’s sister’s age is twice Herman’s age.

How old is Herman? How old is his sister?

Quick Review
Find the next number in the pattern.
1. 5, 10, 15, 20, ___
2. 45, 46, 48, 51 ___
3. 86, 84, 80, 74, 66, ___

Lesson Quiz
Make a table to solve each problem.
1. Anna’s puppy is on a special diet. It will eat 800 calories today, Monday. Each day after that it will eat 25 calories less than it ate the day before. On what day will the puppy eat 675 calories?
Problem of the Day
Turkey dogs come in packages of 8. Buns come in packages of 12. What is the fewest number of packages of each you could buy to have the same number of turkey dogs as buns?

Quick Review
1. \(35 - 19 = \) □
2. \(134 + 128 + 156 + 130 = \) □
3. \(548 \div 4 = \) □

Lesson Quiz
Use the data to answer the questions.
1. What is the range of ages in the Lattiff family?
2. What is the family’s mean age?

<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mom</td>
<td>38</td>
</tr>
<tr>
<td>Dad</td>
<td>39</td>
</tr>
<tr>
<td>Jessie</td>
<td>14</td>
</tr>
<tr>
<td>Linda</td>
<td>9</td>
</tr>
<tr>
<td>Jon</td>
<td>5</td>
</tr>
</tbody>
</table>
Problem of the Day
On five tests, Maya got the following scores: 74, 84, 80, 84, and 68. Which measure is greater—her mean score or her median score? Explain.

Quick Review
1. What is the range of the set of numbers?
   {14, 62, 38, 40}
2. What is the median of the set of numbers?
   {40, 38, 54, 59}
3. What is the mode of the set of numbers?
   {83, 107, 83, 59, 59, 83, 87}

Lesson Quiz
1. How many fourth-graders sleep for 10 hours each night? For 7 hours?
2. What is the median? The mode?
Problem of the Day
Miguel sorted the numbers 37, 54, 38, 51, 31, 55, and 36 into two groups. What are two ways to do this? Show the numbers grouped both ways.

Quick Review
Write each number in standard form.
1. thirty-two ones
2. forty ones
3. seven tens, three ones

Lesson Quiz
Eight fourth-graders have collected cans for a food drive. These eight have collected 35, 22, 28, 29, 31, 34, 30, and 35 cans.
1. Make a stem-and-leaf plot to show the data.
Problem of the Day
A student polled 30 classmates to find out their favorite after-school activity. The following choices were offered: ride a bicycle, read a book, play a computer game, and play a sport. Half chose playing a computer game. Seven chose reading. There were 3 times as many votes for playing a sport than for bicycle riding. How many students chose bicycle riding as their favorite?

Quick Review
Round to the nearest 10.
1. 77
2. 133
3. 821

Lesson Quiz
1. You want to compare sales of Japanese cars and German cars in the USA during each of the last 5 years. Would you make a single bar graph or a double bar graph? Explain your choice.
Problem of the Day
Suppose you had to choose between two plans for being paid for an 8-hour job. In Plan 1, you would be paid $20 an hour. In Plan 2, you would be paid $1 for the first hour, $2 for the second hour, $4 for the third, $8 for the fourth, and so on. Which plan would you take? Why?

Quick Review
Solve. Write >, <, or =.
1. $\frac{1}{4} \ 2$
2. $\frac{1}{3} \ 1\ 4$
3. $3 \times 20 \ 6 \times 5 \times 2$
4. $14 \ \frac{1}{2}$ of 30

Lesson Quiz
Use the clouds circle graph on page 379 to answer the questions.
1. About how many days had cumulus clouds in February?
2. About what fraction of the days had one kind of cloud or another?
Problem of the Day
There was a parade of bicycles and tricycles. The crowd was so thick that Jackie could see only the wheels going by. At one point, she counted 23 wheels. Her taller friend was able count the bicycles and tricycles. He counted a total of 10. How many were bicycles? How many were tricycles?

Quick Review
A bar graph shows the following data about numbers of sunny days: January—24, February—16, March—20, April—22, and May—28 days.

1. What was the mean number of sunny days for the months on the graph?

Lesson Quiz
Use the graph on page 380.

1. Which point has the highest temperature? The lowest temperature?

2. What information would you need to find the average temperature for the hike?
Problem of the Day
How many squares can you find in the figure?

Quick Review
Complete the pattern.
1. 3, 6, 9, ___, 15,…
2. 0, 4, 8, ___, 16,…
3. 2, 5, 9, 14, ___, 27,…
4. 1, 3, 7, 13, ___, 31,…

Lesson Quiz
You are making a line graph to show average monthly high temperatures. The temperatures range from a low of 30°F to a high of 75°F.
1. What information would you show along the bottom of your graph?
2. What intervals would you use for temperatures along the vertical scale?
Problem of the Day
An egg dropped 6 feet and did not break. How could that be? Give as many reasonable explanations as you can.

Quick Review
Add or subtract. Use mental math.
1. $98 + 66$
2. $83 + 45 + 17$
3. $101 - 37$
4. $135 - 39 + 4$

Lesson Quiz
Choose a graph to display the data. Write bar graph, circle graph, line graph, or pictograph.
1. to show snowfall for a week
2. to compare weights of football players
3. to show how a school spends its yearly budget
4. to show how many baseball cards
   5 collectors own
Problem of the Day
In how many different ways can Lucia, Kate, Mario, and Sharice stand in line if Kate is always first?

Quick Review
Solve. Use the following set of numbers:
{2, 3, 7, 3, 12, 5, 8, 1, 4}
1. What is the range of the numbers?
2. What is the mode of the numbers?
3. What is the mean of the numbers?
4. What is the median of the numbers?

Lesson Quiz
Write true or false for each sentence.
1. If two lines are parallel, they meet.
2. Perpendicular lines intersect at right angles.
3. A line segment has one endpoint.
4. All intersecting lines are perpendicular.
Problem of the Day
Line $MN$ is perpendicular to line $PQ$. Line $PQ$ is perpendicular to line $RS$. How are lines $RS$ and $MN$ related? *Hint:* Draw a sketch to show your answer.

Quick Review
Use the drawings.
1. Name each point.
2. Name the parallel lines.
3. Name a pair of intersecting line segments.

Lesson Quiz
Use the drawing.
1. What is the name of this angle?
2. What kind of angle is it?
3. What is its vertex?
4. What are its sides?
Problem of the Day
Albert walks 8 blocks east, then 5 blocks south. He walks 2 more blocks south and then turns west. He walks for 12 blocks. Then he turns north and walks for 7 blocks and stops. How far and in what direction must Albert walk to reach his starting point?

Quick Review
Draw and label each of the following.
1. Ray RS
2. Line segment MN
3. Obtuse angle DEF
4. Straight angle JKL

Lesson Quiz
Draw each angle. Classify each as right, acute, obtuse, or straight.
1. 60°
2. 120°
3. 90°
4. 20°
Problem of the Day
The sum of the measures of three angles is 180 degrees. One angle measures 40°. Of the two remaining angles, the measure of one is 20° more than the measure of the other. What are the degree measures of the three angles?

Quick Review
1. Draw an acute angle.
2. Draw an obtuse angle.
3. Draw an angle of 75°.
4. Draw a right angle.

Lesson Quiz
Name each figure.
1.  
2.  
3.  
4.  

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Problem of the Day
A snail is walking along the sides of a rectangle. The rectangle is 20 inches long and 12 inches wide. It takes the snail 2 minutes to move 1 inch. How long does it take the snail to walk all the way around the rectangle?

Quick Review
Write true or false.
1. Every parallelogram is a polygon.
2. Regular pentagons have 5 sides of equal length.
3. Every rhombus is a square.
4. Some polygons are open figures.

Lesson Quiz
Draw each of the following:
1. a right scalene triangle
2. an equilateral triangle
3. an obtuse triangle
4. an acute isosceles triangle
Problem of the Day
How many triangles are in the drawing?
*Hint:* There are three different sizes of triangles in the figure. Find how many of each size.

Quick Review
Name the figure.
1. 6-sided polygon
2. triangle with 3 sides of the same length
3. parallelogram with 4 sides the same length and no right angles
4. triangle with an obtuse angle and two sides the same length

Lesson Quiz
Complete each pattern.
1. ∩ ∪ ∆ ∩ ∩ __ __ ∆ ∆
2. 1, 2, 3, 5, 8, ____, ____, 34
Problem of the Day
Juan does sit-ups every day. Each time, he does 3 more sit-ups than he did the time before. Today, Tuesday, Juan did 27 sit-ups. If he sticks to his plan, how many will he do in one week from today?

Quick Review
Name each figure.
1. 

Lesson Quiz
1. Draw a circle by tracing around a circular object. Name it $P$.
2. Draw radius $PQ$.
3. Draw chord $MN$ that is not a diameter.
4. Draw chord $ST$ that is a diameter.
Problem of the Day
What is the fewest number of line segments you need in order to make 2 congruent triangles? Explain.

Quick Review
Draw and label each figure.
1. line segment ST
2. a pentagon
3. acute angle DEF
4. a right triangle
5. a circle with radius JK

Lesson Quiz
1. Draw a figure congruent to the hexagon.
   ![Hexagon](image)

2. Draw a figure congruent to the polygon.
   ![Polygon](image)
Problem of the Day
Dora has an 8" square pan and an 8" round pan. She bakes cakes in each pan. When the cakes are done, she wants to serve them in a heart shape. How can she do it?

Quick Review
Draw each figure.
1. right angle ABC
2. acute angle DEF
3. obtuse angle JKL
4. straight angle RST
5. parallel lines RS and XY

Lesson Quiz
Tell how each figure was moved. Write rotation, reflection, or translation.
1. 
2. 
Problem of the Day

A H X R E L

One of the letters does not belong with the others in the box. Identify that letter and tell why.

Quick Review

Solve.

1. 4 gal = ___ qt
2. 2 mi = ___ ft
3. 8,000 lb = ___ t
4. 27 yd = ___ ft
5. 2 years = ___ weeks

Lesson Quiz

Kayla is buying tiles for her hall. Each tile is a 6-inch square. If her hall is a rectangle 6 ft long and 4 ft wide, how many tiles does she need to cover the space?
Problem of the Day
The great Spanish artist Pablo Picasso was born in a 19th-century year containing numerals with two lines of symmetry. Which year could it be: 1871, 1881, or 1891?

Quick Review
Complete each sentence.
1. A ___ turns a figure around a point.
2. A ___ flips a figure over a line.
3. A ___ slides a figure in a straight line.
4. ___ figures have exactly the same size and the same shape.
5. Figures with the same shape but different sizes are ___.

Lesson Quiz
How many lines of symmetry does each figure have?
1. 2. 3.
Problem of the Day
Tan and red bricks form a border around a pool. The pattern is 2 red bricks for every tan brick. It took 327 bricks to make the border. How many bricks are red?

Quick Review
Is the dashed line a line of symmetry?
Write yes or no.

1. 2.

3. 4.

Lesson Quiz
Piri made this solid block. She used 27 cubes snapped together. How many cubes are completely hidden?
Problem of the Day
Xavier drew a square whose area and perimeter have the same number of units. What size is the square?

Quick Review
Solve.
1. $8 \times 8$
2. $12 \times 12$
3. $30 \times 30$
4. $700 \times 700$
5. $25 \times 25$

Lesson Quiz
Use grid paper to solve each problem.
1. Draw a rectangle with an area of 28 square units and a perimeter greater than 28 units.
2. Draw a rectangle with an area of 30 square units and a perimeter less than 30 units.
Problem of the Day
A rectangle is twice as long as it is wide. Its perimeter is 42 cm. Find the length and width of the rectangle.

Quick Review
Use grid paper to solve each problem.
1. Draw a rectangle with an area of 14 square units and a perimeter of 30 units.
2. Draw a rectangle with an area of 26 square units and a perimeter of 30 units.

Lesson Quiz
Write a formula to find each perimeter. Then solve.
1. regular octagon with sides 7 cm long
2. regular pentagon with sides 8 cm long
3. equilateral triangle with sides 9 in. long
Problem of the Day
Helen wants to cover her garden for the winter. To get the right amount of material, she must find the area of the space. Helen’s garden is 12 ft long and 18 ft wide. What is its area?

Quick Review
Find each product.
1. $18 \times 9$
2. $11 \times 25$
3. $13 \times 14$
4. $24 \times 36$
5. $35 \times 48$

Lesson Quiz
Find the perimeter and area of each rectangle.
1. 12 yd long, 4 yd wide
2. 6 in. long, 18 in. wide
3. 9 mm long, 22 mm wide
4. 4 mi long, 19 mi wide
Problem of the Day
How can you form 2 equilateral triangles with sides 12 cm long using a single 60-cm length of wire?

Quick Review
Find the perimeter and area for each rectangle.
1. 25 ft long, 8 ft wide
2. 16 cm long, 13 cm wide
3. 3 km long, 14 km wide
4. 46 in. long, 27 in. wide

Lesson Quiz
Find the perimeter and area of each figure.
1. 21 cm 14 cm 7 cm 14 cm
2. 12 ft 6 ft 3 ft 6 ft 18 ft 6 ft 9 ft 6 ft
Problem of the Day
Jenny is having a snack. It’s red and it looks like a sphere. What could the snack be?

Quick Review
Name the polygon that has—
1. 6 sides
2. 8 sides
3. 3 sides, 2 of which are the same length
4. 5 sides of equal length
5. 4 sides of different lengths

Lesson Quiz
Answer the questions about solid figures.
1. How many faces on a triangular prism?
2. How many edges on a rectangular prism?
3. How many vertices on a triangular pyramid?
Problem of the Day
A cube that measures 5 cm on a side holds a smaller cube inside it that measures 4 cm on a side. What is the volume of empty space inside the larger cube?

Quick Review
Write how many.
1. vertices on a cube
2. vertices on a sphere
3. faces on a triangular pyramid
4. edges on a triangular prism

Lesson Quiz
Solve.
1. A box is 10 in. long, 8 in. high, and 6 in. wide. What is its volume?
2. A cube measures 7 cm on a side. What is the volume of the cube?
3. Shanti knows that the volume of a box is 100 ft$^3$. If the height is 10 ft and the width is 2 ft, what is the length?
Problem of the Day
Mark drew a square with a perimeter of 36 inches. Tia drew a square with a perimeter of 32 inches. Beth drew a square with an area of 64 square inches. Which two students drew congruent squares?

Quick Review
Simplify each expression.
1. \((7 \times 2) + (11 \times 2)\)
2. \((2 \times 5) + (2 \times 8) + (2 \times 6)\)
3. \((5 \times 7) + (7 \times 7) + (9 \times 7)\)
4. \((11 + 22) \times (13 + 10)\)
5. \((16 + 8) \times (48 − 16)\)

Lesson Quiz
Use a formula to solve.
1. A bin is 4 ft wide, 2 ft high, and 1 ft long. How much storage space is there inside the bin?
2. A bulletin board measures 48 inches by 20 inches. What is the maximum amount of space for posting things?
Problem of the Day
Ray and Eva get equal shares of a pizza cut into 8 slices. Ray decides to split his share evenly with Carlos. How many slices of pizza does Carlos get?

Quick Review
Use the diagram.
1. Name a chord. Name a radius.
2. What kind of angle is \( \angle ADB \)?
3. What is the measure of \( \angle ADB \)?
4. What is the measure of \( \angle CDB \)?

Lesson Quiz
Draw a picture to show each fraction.
1. \( \frac{1}{2} \)
2. \( \frac{1}{8} \)
3. \( \frac{2}{5} \)
4. \( \frac{2}{3} \)
5. \( \frac{7}{12} \)
Problem of the Day
A school principal called 3 people to tell them about a meeting. Each person she called phoned 3 other people. Then each of them phoned 3 people. Including the principal, how many people heard about the meeting?

Quick Review
Write the fraction for the shaded part.
1.

2.

Lesson Quiz
Are the fractions equivalent? Write yes or no. Use fraction strips to help you.
1. $\frac{3}{4}$ and $\frac{5}{8}$
2. $\frac{4}{12}$ and $\frac{1}{3}$
3. $\frac{1}{6}$ and $\frac{1}{12}$
4. $\frac{3}{10}$ and $\frac{2}{5}$
Problem of the Day
Natalie’s class held a raffle. There were 12 prizes in all. Natalie won 2 of the prizes. What fraction of the prizes did Natalie not win?

Quick Review
Find two fractions equivalent to each.
1. \(\frac{2}{3}\)
2. \(\frac{6}{8}\)
3. \(\frac{7}{10}\)
4. \(\frac{3}{12}\)

Lesson Quiz
Write each fraction in simplest form.
1. \(\frac{10}{12}\)
2. \(\frac{12}{15}\)
3. \(\frac{6}{10}\)
4. \(\frac{7}{21}\)
5. \(\frac{10}{18}\)
6. \(\frac{5}{20}\)
Problem of the Day
The floor of a square room is covered by 6 rows of 6 large square tiles. Which is greater, the fraction of tiles that forms the edge of the room, or the fraction of inside tiles? *Hint:* Draw a diagram.

Quick Review
Write each fraction in simplest form.

1. \( \frac{10}{20} \)
2. \( \frac{12}{18} \)
3. \( \frac{6}{14} \)
4. \( \frac{9}{21} \)
5. \( \frac{10}{25} \)
6. \( \frac{4}{24} \)

Lesson Quiz
Compare. Write >, <, or = for each .

1. \( \frac{1}{3} \) \( \frac{1}{2} \)
2. \( \frac{3}{8} \) \( \frac{7}{8} \)
3. \( \frac{2}{4} \) \( \frac{3}{5} \)
4. \( \frac{5}{6} \) \( \frac{4}{5} \)
5. \( \frac{6}{8} \) \( \frac{8}{12} \)
6. \( \frac{2}{4} \) \( \frac{8}{16} \)
Problem of the Day
Find fractions of numbers in our classroom. What fraction of the class is absent today? What fraction of the class is wearing sneakers?

Quick Review
Write each set of fractions in order from least to greatest.
1. \(\frac{2}{3}, \frac{2}{9}, \frac{2}{6}\)
2. \(\frac{4}{5}, \frac{3}{10}, \frac{1}{5}\)
3. \(\frac{3}{8}, \frac{3}{4}, \frac{3}{6}\)
4. \(\frac{1}{3}, \frac{5}{6}, \frac{4}{9}\)

Lesson Quiz
Find the fractional part of each number.
1. \(\frac{1}{2}\) of 22
2. \(\frac{3}{5}\) of 25
3. \(\frac{7}{8}\) of 32
4. \(\frac{7}{10}\) of 70
5. \(\frac{1}{6}\) of 48
6. \(\frac{3}{4}\) of 40
Problem of the Day
Rank the following money amounts from least to greatest: $\frac{1}{2}$ of a dime, $\frac{1}{4}$ of a dollar, $\frac{4}{5}$ of a quarter, and $\frac{4}{5}$ of a nickel.

Quick Review
Find the fractional part of each number.
1. $\frac{1}{2}$ of 32
2. $\frac{2}{5}$ of 35
3. $\frac{5}{8}$ of 24
4. $\frac{3}{10}$ of 40
5. $\frac{5}{6}$ of 42
6. $\frac{3}{4}$ of 60

Lesson Quiz
Draw a picture to solve each problem.
1. After Tina spent $\frac{1}{2}$ of all her money on a sketch pad, $\frac{1}{4}$ of it on pencils, and $2$ on erasers, she had no money left. How much money did Tina spend altogether?
2. Cary used $\frac{1}{2}$ of a piece of ribbon to make a large bow and $\frac{3}{8}$ of it to make a smaller bow. He had 3 inches of ribbon left over. How many inches of ribbon did Cary start with?
Problem of the Day
Inez gave $\frac{1}{4}$ of her collection of coins to her brother. She gave him 12 coins. How many coins does Inez have left?

Quick Review
Divide.
1. $25 \div 4$
2. $31 \div 8$
3. $42 \div 9$
4. $35 \div 6$

Lesson Quiz
Copy and complete the table.

<table>
<thead>
<tr>
<th>Division</th>
<th>Improper Fraction</th>
<th>Mixed Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. $17 \div 4$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. $22 \div 5$</td>
<td></td>
<td>$4\frac{2}{5}$</td>
</tr>
<tr>
<td>3.</td>
<td>$\frac{11}{3}$</td>
<td></td>
</tr>
</tbody>
</table>
Problem of the Day
Place the digits 0, 2, 4, and 5 into the squares below to make the greatest possible product.

Quick Review
Write each improper fraction as a mixed number.

1. \( \frac{6}{5} \)
2. \( \frac{8}{3} \)
3. \( \frac{20}{5} \)
4. \( \frac{7}{4} \)
5. \( \frac{12}{7} \)
6. \( \frac{9}{3} \)

Lesson Quiz
Add or Subtract. Write your answer in simplest form.

1. \( \frac{3}{10} + \frac{4}{10} \)
2. \( \frac{1}{3} + \frac{1}{3} \)
3. \( \frac{5}{9} + \frac{5}{9} \)
4. \( \frac{5}{8} + \frac{7}{8} \)
Problem of the Day
Jack found \( \frac{7}{10} \) of a dollar under the cushions of the couch. Irina found \( \frac{4}{10} \) of a dollar under the cushions of another couch. How much money did the two find in all?

Quick Review
Add or subtract. Write the answer in simplest form.

1. \( \frac{3}{5} + \frac{4}{5} \)
2. \( \frac{1}{6} + \frac{5}{6} \)
3. \( \frac{2}{9} + \frac{4}{9} \)
4. \( \frac{5}{12} + \frac{5}{12} \)

Lesson Quiz
Add or subtract. Write the answer in simplest form.

1. \( 1 \frac{3}{4} + 2 \frac{1}{4} \)
2. \( 5 \frac{5}{6} - 2 \frac{1}{6} \)
3. \( 4 \frac{2}{9} - 3 \)
4. \( 6 \frac{7}{12} + 2 \frac{1}{12} \)
Problem of the Day
Suppose you can fit 12 rows of chairs in a room. You can fit 8 or 9 chairs in each row. How could you set up exactly 100 chairs?

Quick Review
Divide.
1. 36 ÷ 9
2. 16 ÷ 8
3. 42 ÷ 7
4. 56 ÷ 8
5. 32 ÷ 4
6. 40 ÷ 10

Lesson Quiz
Solve.
1. Boxes of crayons cost $4 at the shop. How many boxes can you buy with $15? How much change is left?
2. For lunch at the zoo, 6 students shared 9 sandwiches equally. How many sandwiches did each student eat?
Problem of the Day
Of the students in Tony's class, $\frac{17}{23}$ have dogs and $\frac{2}{23}$ have cats. None of the other students have pets. What fraction of the students in the group do not have pets?

Quick Review
Round to 0, $\frac{1}{2}$, or 1.

1. $\frac{3}{8}$
2. $\frac{1}{8}$
3. $\frac{9}{10}$
4. $\frac{4}{10}$

Lesson Quiz
Estimate each sum. Write $>1$ or $<1$.

1. $\frac{5}{6} + \frac{3}{4}$
2. $\frac{1}{3} + \frac{1}{5}$
3. $\frac{1}{2} + \frac{4}{5}$
4. $\frac{3}{8} + \frac{1}{3}$
5. $\frac{5}{8} + \frac{1}{2}$
6. $\frac{4}{9} + \frac{2}{7}$
Problem of the Day
The Chen family brought cookies to a bake sale. Anna brought $\frac{3}{12}$ of the cookies they baked, Nelson brought $\frac{2}{12}$, and Louise brought $\frac{5}{12}$. What fraction of the cookies did the Chen children bring to the bake sale? Give your answer in simplest form.

Quick Review
Find each sum or difference. Write your answer in simplest form.

1. $\frac{9}{10} - \frac{4}{10}$
2. $2 \frac{1}{3} + 4 \frac{2}{3}$

Lesson Quiz
Solve. Explain which method you chose.

1. Every seat was filled in the stadium. The stadium has 32 sections. Each section has 1,588 seats. How many fans were in the stands?
2. A jogger ran $5 \frac{3}{5}$ miles one day, $3 \frac{1}{5}$ miles on the next day, and $4 \frac{2}{5}$ miles on the third day. How many more miles did she run on the first day than on the third?
Problem of the Day
A leap year has 366 days because February has 29 days during this kind of year. On what date are we exactly $\frac{1}{6}$ of the way through a leap year?

Quick Review
Write two equivalent fractions for each.
1. $\frac{4}{5}$
2. $\frac{9}{12}$
3. $\frac{14}{28}$
4. $\frac{12}{8}$

Lesson Quiz
Find each sum. Use fraction strips to help you.
1. $\frac{3}{10} + \frac{2}{5}$
2. $\frac{1}{3} + \frac{5}{6}$
3. $\frac{5}{9} + \frac{2}{3}$
4. $\frac{5}{8} + \frac{1}{6}$
5. $\frac{3}{8} + \frac{3}{4}$
6. $\frac{5}{6} + \frac{1}{4}$
Problem of the Day
Miguel bought $\frac{7}{8}$ yard of white ribbon, $\frac{3}{4}$ yard of black ribbon, and $\frac{5}{6}$ yard of blue ribbon. Did he buy enough ribbon for a costume that requires 2 yards of ribbon? Explain how you know.

Quick Review
Find each sum. Use fraction strips to help you.

1. $\frac{3}{5} + \frac{2}{3}$
2. $\frac{2}{3} + \frac{5}{6}$
3. $\frac{5}{9} + \frac{1}{3}$
4. $\frac{5}{8} + \frac{3}{4}$

Lesson Quiz
Use fraction strips to help you find each difference.

1. $\frac{1}{2} - \frac{1}{4}$
2. $\frac{5}{12} - \frac{1}{6}$
3. $\frac{4}{9} - \frac{1}{3}$
4. $\frac{5}{8} - \frac{1}{4}$
Problem of the Day
For the last $\frac{1}{2}$ hour of a race, a runner ran at a rate of $\frac{3}{4}$ mile every 5 minutes. How far did she run in that half hour? *Hint:* How many minutes are in half an hour?

Quick Review
Find each amount.
1. $\frac{1}{2}$ of 30
2. $\frac{5}{6}$ of 12
3. $\frac{2}{3}$ of 21
4. $\frac{2}{5}$ of 40
5. $\frac{1}{4}$ of 24
6. $\frac{3}{8}$ of 32

Lesson Quiz
The graph shows how many of each kind of fish Greg has in his aquarium. He has 16 fish in all.
1. How many more goldfish does he have than angelfish?
2. How many fewer angelfish does he have than neons?

\[
\begin{align*}
\text{goldfish} & \quad \frac{1}{2} = 180^\circ \\
\text{neons} & \quad \frac{1}{8} = 45^\circ \\
\text{angelfish} & \quad \frac{3}{8} = 135^\circ
\end{align*}
\]
Problem of the Day
Continue each pattern:
• 1.2, 1.0, 0.8, ___, ___, ___. . . .
• 0.09, 0.18, 0.27, ___, ___, ___. . . .
• 0.92, 0.95, 0.98, ___, ___, ___. . . .

Quick Review
Write each fraction in simplest form.
1. \( \frac{7}{3} \) 2. \( \frac{9}{18} \) 3. \( \frac{11}{4} \)

Lesson Quiz
Use grid paper. Draw a model to show each fraction. Then write each fraction as a decimal.
1. \( \frac{7}{10} \)
2. \( \frac{30}{100} \)

Use grid paper. Draw a model to show each decimal. Then write each decimal as a fraction.
3. 0.9
4. 0.44
Problem of the Day
Lulu says that there are many decimals greater than 0.65 but less than 0.66, and she can prove it! What decimals does Lulu have in mind?

Quick Review
Write each fraction as a decimal.
1. \( \frac{7}{10} \)
2. \( \frac{5}{10} \)
3. \( \frac{41}{100} \)
4. \( \frac{30}{100} \)

Lesson Quiz
Write each as a decimal.
1. \( \frac{212}{1,000} \)
2. 943 thousandths
3. \( \frac{11}{1,000} \)
4. 75 thousandths
5. 8 thousandths
Problem of the Day
Using the digits 6, 5, 4, and 3, create a mixed number that is between 3.5 and 3.6.

Quick Review
Write each decimal in standard form.
1. six tenths
2. seventeen hundredths
3. ninety-eight thousandths

Lesson Quiz
Write each decimal in standard form.
1. one and eight tenths
2. five and twelve hundredths
3. ninety-nine and forty-four hundredths
4. seventy and seventy-six thousandths
5. six and two hundred five thousandths
Problem of the Day
Damian recorded $\frac{68}{100}$ inches of rain. Nola recorded 0.68 inches of rain. Who recorded a greater amount?

Quick Review
Are the fractions equivalent? Write yes or no.

1. $\frac{3}{4}$ and $\frac{5}{8}$
2. $\frac{4}{12}$ and $\frac{1}{3}$
3. $\frac{1}{6}$ and $\frac{3}{12}$
4. $\frac{8}{10}$ and $\frac{4}{5}$
5. $\frac{3}{5}$ and $\frac{60}{100}$

Lesson Quiz
Write each decimal as a fraction.
1. 0.8  2. 0.68  3. 0.20

Write each fraction as a decimal.
4. $\frac{3}{10}$
5. $\frac{25}{100}$
6. $\frac{7}{20}$
Problem of the Day
The house numbers on Margie’s side of her block are even numbers from 538 to 562. How many houses are there on her side of the block?

Quick Review
Complete each pattern.
1. □ □ ○ ○ □ □ __ __
2. Δ ■ Δ ■ ■ Δ ■ __ __ __
3. < = > = ≤ ≠ ≥ = < = > = __ __ __
4. 1 1 1 3 9 27 81 __ __

Lesson Quiz
Look at each pattern of numbers. If the pattern continues, what is the next number likely to be?
1. 7 11 15 19 23 27 31 35
2. 3 8 14 21 29 38 48 59
Problem of the Day
Add a decimal point to both numbers to make each statement true.
• $25 = 250$
• $678 < 678$
• $409 > 409$

Quick Review
Order the numbers from greatest to least.
1. $889, 898, 888, 890$
2. $4.30, 4, 4.27, 4.32$
3. $1\frac{1}{2}, 2\frac{1}{8}, 2, 2\frac{1}{4}$
4. $5,864, 5,871, 5,846$

Lesson Quiz
Order the numbers from greatest to least.
1. $3.14, 3.16, 3.61, 3.46$
2. $7.03, 7.3, 7.0, 7.12$
3. $4.15, 5.01, 15.04, 5$
Problem of the Day
Bud was in bed with the flu. When he woke up, his temperature was 100.8 degrees. By noon, the thermometer said 100.5 degrees. Did Bud’s fever go up or down?

Quick Review
Order the numbers from greatest to least.
1. 4.25  4.27  4.72  4.57
2. 8.02  8.2  8.0  8.01
3. 7.39, 8.01, 16.4, 8

Lesson Quiz
Order the numbers from greatest to least.
1. 3.5  3\(\frac{6}{10}\)  3\(\frac{57}{100}\)  3.9
2. 87\(\frac{9}{100}\)  87.65  87\(\frac{6}{10}\)  87.5
3. 111.01  110.11  111\(\frac{1}{10}\)  111\(\frac{11}{100}\)
Problem of the Day
Figure out a three-digit mystery decimal.
*HINT: There is more than one answer!*
• To the nearest ten, it rounds to the number of days in November.
• To the nearest whole, it rounds to a multiple of 9.
• The digit sum is a prime number.

Quick Review
Round to the nearest dollar.
1. $0.83
2. $7.25
3. $3.50
4. $16.68
5. $904.07

Lesson Quiz
Round each decimal to the place of the underlined digit.
1. 4.6
2. 518.96
3. 61.52
4. 20.071
5. 876.543
Problem of the Day
Find the value of $K$ and $P$.

\[
\begin{align*}
\$54.KP \\
+ &1K.97 \\
\hline \\
\$6P.K5
\end{align*}
\]

Quick Review
Round each decimal to the place of the underlined digit.

1. \underline{8.09} \\
2. \underline{326.85} \\
3. \underline{25.59} \\
4. \underline{60.083} \\
5. \underline{913.544}

Lesson Quiz
Estimate by rounding to the nearest whole number or dollar.

1. \(7.3 + 5.7\) \\
2. \(8.2 - 1.6\) \\
3. \(29.501 + 64.006\) \\
4. \($5.67 + $9.08\) \\
5. \($510.47 - $9.84\)
Problem of the Day
Describe the pattern. Then extend it.

2.00  2.14  2.28  2.42  ___  ___  ___

Quick Review
Add or subtract.

1. \$5.67 + 3.24
   \$8.91

2. \$6.01 - 2.78
   \$3.23

3. \$47.98 + 88.75
   \$136.73

4. \$20.80 - 15.29
   \$5.51

Lesson Quiz
Find the sum or difference. Use models if you wish.

1.   4.3 - 1.7
   2.6

2.   1.4 + 1.8
   3.2

3.   2.47 - 1.21
   1.26

4.   1.06 + 1.24
   2.30

5.   2.08 - 1.34
   0.74
Problem of the Day
Describe the pattern. Then continue it.

10.02  15.81  21.6  27.39 ___ ___ ___

Quick Review
Write each decimal in standard form.
1. two hundred fifty-six thousandths
2. 40 + 7 + 0.9 + 0.006
3. nine and eighteen hundredths
4. 7 + 3 tenths + 8 thousandths
5. ten and sixty-one thousandths

Lesson Quiz
Add or subtract. Check your work.
1. 5.7
   + 9.4
2. 4.02
   – 1.63
3. 7.918
   + 1.375
4. 5.61
   – 2.08
Problem of the Day
A marker costs $0.88 and a pad of paper costs $1.29. Reba needs 2 markers and 3 pads of paper. She has $5.00. Is this enough money? If yes, how much change will she get? If not, how much more money does she need?

Quick Review
Add or subtract. Check your work.

1. \[6.8 + 7.3\]
2. \[5.06 - 3.57\]
3. \[6.095 + 2.446\]
4. \[7.72 - 4.06\]

Lesson Quiz
One winter night, the temperature fell 0.2 degrees every 15 minutes for 2 hours. When the temperature hit 15.6°F, it stayed there until dawn. What was the temperature when it began to fall?
Problem of the Day
Kevin has only blue socks and white socks. He never pairs them, but just stuffs them in a drawer. One morning, without looking, he grabs 2 socks. What socks might he have?

Quick Review
What comes next?

1. \( \frac{1}{2}, \frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{5}{10}, \) ___
2. \( \frac{3}{5}, \frac{6}{10}, \frac{9}{15}, \frac{12}{20}, \) ___
3. 2.3, 4.6, 9.2, 18.4, ___
4. 7, 0.7, 0.07, 0.007, ___

Lesson Quiz
Look at the bag of cubes. Write certain, likely, equally likely, unlikely, or impossible to describe the probability of picking the color.

1. yellow
2. red
3. red or blue
Problem of the Day
LeVar loves to read. He got 11 books for his birthday. Five of them were biographies. What fraction of the gift books were on other topics?

Quick Review
Write each as a fraction or whole number in simplest form.
1. 3 out of 9
2. 5 out of 10
3. 6 out of 7
4. 5 out of 9
5. 8 out of 8

Lesson Quiz
Solve.
1. A box holds 2 blue marbles and 6 red marbles. How many and what color marbles would you remove from the bag to make the probability of picking red \( \frac{1}{2} \)?
2. A number cube has faces labeled 1–6. Write a fraction for the probability of rolling a number greater than 1.
Problem of the Day
A bag holds 3 red, 7 green, and 5 purple beads. Without looking, you reach in and pick 1 bead. What is the probability that you will pick a purple bead?

Quick Review
Name each polygon.
1. It has 6 sides.
2. It has 3 sides, 2 of which are equal.
3. It has 4 sides, but only one pair of sides is parallel.
4. It has 5 sides of equal length.

Lesson Quiz
You put 10 marbles in a pouch. 4 are red, 3 are blue, 2 are pink, and 1 is gray. Each time you pick a marble, you record its color and put it back in the bag. You try this 100 times. Predict how many times you will pick—
1. red 2. gray 3. black
Problem of the Day
Dawn sleeps 9 hours a day and walks her dog for 30 minutes twice a day. If Dawn is in school for 7 hours a day, how much time is left in her day for doing other things?

Quick Review
Write the numbers in order from least to greatest.
1. 205; 250; 25; 2.5
2. $3\frac{1}{2}$; $\frac{5}{2}$; $\frac{3}{2}$

Lesson Quiz
Make an organized list to solve each problem.
1. What three-digit numbers you can make with the digits 4, 3, and 6?
2. Amy, Tess, and Luis are running for school president. What are the ways they can finish in the voting?
Problem of the Day
If Aisha answers a *True* or *False* question by guessing, what is the probability that she will answer it correctly?

Quick Review
You pick a letter from the word below without looking. Write the probability in the simplest form.

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DIAGRAM
```

1. I
2. A
3. a vowel
4. a letter that comes before T in the alphabet

Lesson Quiz
You spin a spinner divided into thirds and labeled A, B, C, and flip a coin. Use a tree diagram to answer the questions.

1. How many outcomes show heads and B?
2. What is the probability of tails and C?
3. What is the probability of tails and B or heads and C?
Problem of the Day
A ladybug landed at 0 on a number line. First the ladybug moved right 8 units. Then it moved left 6 units. Then it moved left again 2 units. Where on the number line was the ladybug then?

Quick Review
Complete the function table for the rule add 2, subtract 3.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Lesson Quiz
Use the graph. Write the letter of the ordered pair.
1. (0,5)
2. (3,1)
3. (2,4)
Problem of the Day
Carmen entered a stairwell on the 5th floor. She climbed 8 floors of stairs, delivered a message, and then walked down 3 flights to the cafeteria. What floor of the building is the cafeteria on?

Quick Review
1. What can you say about points with the same first coordinate?
2. Where is the point (0,3) located?

Lesson Quiz
Make a grid labeled from 0–10 on each axis. Plot each of the following points on your grid.
1. A (5,7)
2. B (3,0)
3. M (0,7)
4. N (2,3)
5. Which two points lie along the same horizontal line? (A and M)
Problem of the Day
A local recycling company will pay two cents for each aluminum can. How much will Jed earn if he sells 60 aluminum cans?

Quick Review
Write each money amount.
1. 3 quarters
2. 5 quarters
3. 8 quarters
4. 16 quarters

Lesson Quiz
Solve.
1. Juice cans come in packages of 4. What function could you write to show how many cans of juice (y) are in x packages?
2. Let y stand for a number of turkey hotdogs. Let x stand for how many are in a package. What function could you write to show how many turkey hotdogs you would get if you bought 5 packages?
Problem of the Day
When Letitia woke up, the temperature was 71° F. Three hours later, she heard that the temperature had fallen 12°. What was the temperature at that time?

Quick Review
Write a decimal equivalent to each fraction.

1. $\frac{4}{5}$
2. $\frac{3}{10}$
3. $2\frac{1}{4}$
4. $\frac{3}{4}$
5. $\frac{1}{5}$
6. $4\frac{9}{10}$

Lesson Quiz
Write the integer for each situation.

1. $6$ earned
2. $9$ feet below sea level
3. $12$ yards lost running the football
4. $24$ stories above street level
Problem of the Day
A canoe rents for $6 an hour. Two people will share the cost of renting the canoe for $3\frac{1}{2}$ hours. What does each person pay?

Quick Review
Complete each pattern.
1. 4, 8, 12, 16, ___, 24
2. 2, 6, 18, ___, 162, ___

Lesson Quiz
Use the table to answer the questions.

<table>
<thead>
<tr>
<th>Time</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 hr</td>
<td>$7</td>
</tr>
<tr>
<td>2 hr</td>
<td>$9</td>
</tr>
<tr>
<td>3 hr</td>
<td>$11</td>
</tr>
</tbody>
</table>

1. What will it cost to rent a bicycle for 4 hours?
2. What will it cost to rent a bicycle for 7 hours?
   What ordered pair on a graph would show this?