

# Problem Solving: Diagrams and Equations

**TAKS Objectives 1, 2, 6**  
**TEKS 5.3A, 5.6A, 5.16B**

Choose the correct model or equation for each problem. Then solve.

1. Mato had 9 tennis balls. He bought 6 more. How many tennis balls does Mato have now?

A.  $9 + 6 = \boxed{\phantom{00}}$

B.  $9 - \boxed{\phantom{00}} = 6$

3. A school has two parking lots. The north lot has 215 parking spaces. The east lot has 87 spaces. How many parking spaces are there altogether?

A. 

215	
87	

B. 

215	87

5. Jason is 4 years older than Sam, and Sam is 6 years younger than Adam, who is 16 years old. How old is Jason?

A.  $4 + 6 + \boxed{\phantom{00}} = 16$

B.  $16 - 6 + 4 = \boxed{\phantom{00}}$

C.  $\boxed{\phantom{00}} + 4 - 6 = 16$

2. A classroom has 32 chairs. There are 26 students seated in the chairs. How many chairs are empty?

A. 

32	26

B. 

32	
26	

4. A bookstore ordered 500 copies of a new book. They had 131 copies left after the first day the book was on sale. How many copies of the book did they sell during the first day?

A.  $500 - \boxed{\phantom{00}} = 131$

B.  $500 + 131 = \boxed{\phantom{00}}$

6. Ms. Vega drives 37 miles to work. She drives 18 miles further than Mr. Tran. Mrs. Williams drives 24 miles further than Mr. Tran. How far does Mrs. Williams drive?

A.  $37 - 18 + 24 = \boxed{\phantom{00}}$

B.  $37 + 18 + 24 = \boxed{\phantom{00}}$

C.  $24 - 18 + \boxed{\phantom{00}} = 37$