Mental Math: Divide by Multiples of 10

Find 24,000 ÷ 3.

Think: What basic fact can you use to find the quotient?

\[
\begin{align*}
24 \div 3 &= 8 \\
240 \div 3 &= 80 \\
2,400 \div 3 &= 800 \\
24,000 \div 3 &= 8,000
\end{align*}
\]

As the number of zeros in the dividend increases, so does the number of zeros in the quotient.

Use basic facts to help you divide.

1. \(18 \div 3 = \) _____  
   \(180 \div 3 = \) _____  
   \(1,800 \div 3 = \) _____  
   \(18,000 \div 3 = \) _____

2. \(21 \div 7 = \) _____  
   \(210 \div 7 = \) _____  
   \(2,100 \div 7 = \) _____  
   \(21,000 \div 7 = \) _____  
   \(32,000 \div 8 = \) _____

3. \(32 \div 8 = \) _____  
   \(320 \div 8 = \) _____  
   \(3,200 \div 8 = \) _____  
   \(32,000 \div 8 = \) _____

4. \(48 \div 6 = \) _____  
   \(480 \div 6 = \) _____  
   \(4,800 \div 6 = \) _____  
   \(48,000 \div 6 = \) _____

5. \(20 \div 4 = \) _____  
   \(200 \div 4 = \) _____  
   \(2,000 \div 4 = \) _____  
   \(20,000 \div 4 = \) _____  
   \(36,000 \div 6 = \) _____

6. \(36 \div 6 = \) _____  
   \(360 \div 6 = \) _____  
   \(3,600 \div 6 = \) _____  
   \(36,000 \div 6 = \) _____

7. \(42 \div 7 = \) _____  
   \(420 \div 7 = \) _____  
   \(4,200 \div 7 = \) _____  
   \(42,000 \div 7 = \) _____

8. \(63 \div 9 = \) _____  
   \(630 \div 9 = \) _____  
   \(6,300 \div 9 = \) _____  
   \(63,000 \div 9 = \) _____  
   \(45,000 \div 5 = \) _____

9. \(45 \div 5 = \) _____  
   \(450 \div 5 = \) _____  
   \(4,500 \div 5 = \) _____  
   \(45,000 \div 5 = \) _____