



# Module 3 Lesson 23

1. Use division to answer the following.

<p>a. Is 2 a factor of 72?</p> $\begin{array}{r} 2 \overline{) 72} \\ \underline{-} \phantom{0} \\ 2 \phantom{0} \\ \underline{-} \phantom{0} \end{array}$	<p>b. Is 2 a factor of 73?</p> $\begin{array}{r} 2 \overline{) 73} \\ \underline{-} \phantom{0} \\ 3 \phantom{0} \\ \underline{-} \phantom{0} \end{array}$
<p>c. Is 3 a factor of 72?</p> $\begin{array}{r} 3 \overline{) 72} \\ \underline{-} \phantom{0} \\ 2 \phantom{0} \\ \underline{-} \phantom{0} \end{array}$	<p>d. Is 2 a factor of 60?</p> $\begin{array}{r} 2 \overline{) 60} \\ \underline{-} \phantom{0} \\ 0 \phantom{0} \\ \underline{-} \phantom{0} \end{array}$
<p>e. Is 6 a factor of 72?</p> $\begin{array}{r} 6 \overline{) 72} \\ \underline{-} \phantom{0} \\ 2 \phantom{0} \\ \underline{-} \phantom{0} \end{array}$	<p>f. Is 4 a factor of 60?</p> $\begin{array}{r} 4 \overline{) 60} \\ \underline{-} \phantom{0} \\ 0 \phantom{0} \\ \underline{-} \phantom{0} \end{array}$
<p>g. Is 5 a factor of 72?</p> $\begin{array}{r} 5 \overline{) 72} \\ \underline{-} \phantom{0} \\ 2 \phantom{0} \\ \underline{-} \phantom{0} \end{array}$	<p>h. Is 8 a factor of 60?</p> $\begin{array}{r} 8 \overline{) 60} \\ \underline{-} \phantom{0} \end{array}$

2. Use the associative property to find more factors of 12 and 30.

a.  $12 = 6 \times 2$   
 $= (\quad \times 2) \times 2$   
 $= \quad \times (2 \times 2)$   
 $= \quad \times \quad$   
 $= \quad$

b.  $30 = \quad \times 5$   
 $= (\quad \times 3) \times 5$   
 $= \quad \times (3 \times 5)$   
 $= \quad \times 15$   
 $= \quad$

3. In class, we used the associative property to show that when 6 is a factor, then 2 and 3 are factors, because  $6 = 2 \times 3$ . Use the fact that  $10 = 5 \times 2$  to show that 2 and 5 are factors of 70, 80, and 90.

$$70 = 10 \times 7$$

$$80 = 10 \times 8$$

$$90 = 10 \times 9$$

$$70 = 10 \times 7$$

$$80 = \quad \times 8$$

$$90 = \quad \times 9$$