

Name: _____

Grade: 8

Date: _____

HCF & LCM WORKSHEET

Complete the worksheet and return to teacher.

1. Express the given numbers as products of prime factors.

$$15 = \underline{\hspace{2cm}}$$

$$6 = \underline{\hspace{2cm}}$$

$$30 = \underline{\hspace{2cm}}$$

$$49 = \underline{\hspace{2cm}}$$

$$56 = \underline{\hspace{2cm}}$$

2. The lowest common multiple of 5 and 15 is 5. True or False. _____

3. The highest common factor of 20 and 15 is 5. True or False. _____

4. Calculate the highest common factor of the following:

a) 27 and 30

b) 18 and 56

c) 9 and 15

$$\begin{array}{l} 27 = \boxed{} \\ 30 = \boxed{} \\ \text{H.C.F.} = \boxed{} \end{array}$$

$$\begin{array}{l} 18 = \boxed{} \\ 56 = \boxed{} \\ \text{H.C.F.} = \boxed{} \end{array}$$

$$\begin{array}{l} 9 = \boxed{} \\ 15 = \boxed{} \\ \text{H.C.F.} = \boxed{} \end{array}$$

5. Calculate the lowest common multiple of the following.

a) 8 and 6

b) 5 and 4

c) 10 and 12

$$\begin{array}{l} 8 = \boxed{} \\ 6 = \boxed{} \\ \text{L.C.M.} = \boxed{} \end{array}$$

$$\begin{array}{l} 5 = \boxed{} \\ 4 = \boxed{} \\ \text{L.C.M.} = \boxed{} \end{array}$$

$$\begin{array}{l} 10 = \boxed{} \\ 12 = \boxed{} \\ \text{L.C.M.} = \boxed{} \end{array}$$