

GCF and LCM

Find the GCF and LCM for each set of numbers.

1) 15 and 40

GCF: _____ LCM: _____

2) 5 and 10

GCF: _____ LCM: _____

3) 12 and 54

GCF: _____ LCM: _____

4) 24 and 64

GCF: _____ LCM: _____

5) 7 and 10

GCF: _____ LCM: _____

6) 7 and 49

GCF: _____ LCM: _____

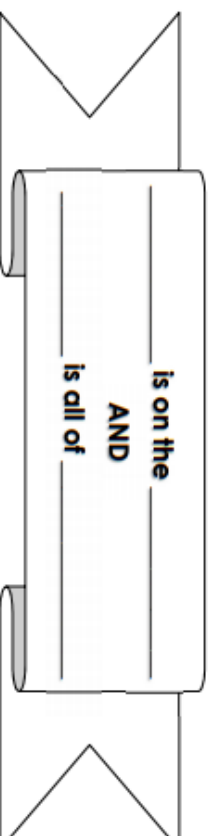
7) 12 and 18

GCF: _____ LCM: _____



8) 16 and 36

GCF: _____ LCM: _____

GCF and LCM in Problem Solving



TIP #1 – Look for **KEY** words that will tell you if you're finding GCF or LCM!

 WORDS	GCF	 WORDS	LCM

You Try:

Circle the key words in the problems below that let you know if you need to find the GCF or the LCM.

1) Johnny is making goodie bags that include a lollipop and bubbles. If the lollipops come 4 to a pack, and the bubbles come 6 to a pack, what is the smallest number of bags that he can make and not have anything left over?

2) Shannon is making identical balloon arrangements for a party. She has 24 white balloons and 16 blue balloons. She wants each arrangement to have the same number of each color. What is the greatest number of arrangements that she can make if every balloon is used?

GCF and LCM

Find the GCF and LCM for each set of numbers.

1) 15 and 40

GCF: 5 LCM: 120

$$\begin{array}{r} 5 \overline{) 15 \quad 40} \\ \underline{3 \quad 8} \end{array}$$

LCM = 5 · 3 · 8 = 120

2) 5 and 10

GCF: 5 LCM: 10

$$\begin{array}{r} 5 \overline{) 5 \quad 10} \\ \underline{1 \quad 2} \end{array}$$

LCM = 5 · 1 · 2 = 10

TIP #1

3) 12 and 54

GCF: 6 LCM: 108

$$\begin{array}{r} 2 \overline{) 12 \quad 54} \\ 3 \overline{) 6 \quad 27} \\ \underline{2 \quad 9} \end{array}$$

GCF = 2 · 3 = 6

LCM = 2 · 3 · 2 · 9 = 108

4) 24 and 64

GCF: 8 LCM: 192

$$\begin{array}{r} 2 \overline{) 24 \quad 64} \\ 4 \overline{) 12 \quad 32} \\ \underline{3 \quad 8} \end{array}$$

GCF = 2 · 4 = 8

LCM = 2 · 4 · 3 · 8 = 192

5) 7 and 10

GCF: 1 LCM: 70

$$\begin{array}{r} 1 \overline{) 7 \quad 10} \\ \underline{7 \quad 10} \end{array}$$

LCM = 1 · 7 · 10 = 70

6) 7 and 49

GCF: 7 LCM: 49

$$\begin{array}{r} 7 \overline{) 7 \quad 49} \\ \underline{1 \quad 7} \end{array}$$

LCM = 7 · 1 · 7 = 49

You Try

Circle you ne

1) Joh

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he

2) Sho

pa

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ea

the

7) 12 and 18

GCF: 6 LCM: 36

$$\begin{array}{r} 2 \overline{) 12 \quad 18} \\ 3 \overline{) 6 \quad 9} \\ \underline{2 \quad 3} \end{array}$$

GCF = 2 · 3 = 6

LCM = 2 · 3 · 2 · 3 = 36

8) 16 and 36

GCF: 4 LCM: 144

$$\begin{array}{r} 2 \overline{) 16 \quad 36} \\ 2 \overline{) 8 \quad 18} \\ \underline{4 \quad 9} \end{array}$$

GCF = 2 · 2 = 4

LCM = 2 · 2 · 4 · 9 = 144