

Greatest Common Factor**Find the greatest common factor?**

1) **90 , 54 , 24 =**

2) **48 , 12 , 18 =**

3) **78 , 54 , 14 =**

4) **96 , 98 , 44 =**

5) **42 , 74 , 44 =**

6) **54 , 10 , 38 =**

7) **52 , 64 , 62 =**

Greatest Common Factor: Solutions

1) **90 , 54 , 24**

$$\begin{array}{rcl}
 90 & = & 2 \times 3 \times 3 \times 5 \\
 54 & = & 2 \times 3 \times 3 \times 3 \\
 24 & = & 2 \times 2 \times 2 \times 3 \\
 \text{GCF (90, 54, 24)} & = & 6
 \end{array}$$

2) **48 , 12 , 18**

$$\begin{array}{rcl}
 48 & = & 2 \times 2 \times 2 \times 2 \times 3 \\
 12 & = & 2 \times 2 \times 3 \\
 18 & = & 2 \times 3 \times 3 \\
 \text{GCF (48, 12, 18)} & = & 6
 \end{array}$$

3) **78 , 54 , 14**

$$\begin{array}{rcl}
 78 & = & 2 \times 3 \times 13 \\
 54 & = & 2 \times 3 \times 3 \times 3 \\
 14 & = & 2 \times 7 \\
 \text{GCF (78, 54, 14)} & = & 2
 \end{array}$$

4) **96 , 98 , 44**

$$\begin{array}{rcl}
 96 & = & 2 \times 2 \times 2 \times 2 \times 2 \times 3 \\
 98 & = & 2 \times 7 \times 7 \\
 44 & = & 2 \times 2 \times 11 \\
 \text{GCF (96, 98, 44)} & = & 2
 \end{array}$$

5) **42 , 74 , 44**

$$\begin{array}{rcl}
 42 & = & 2 \times 3 \times 7 \\
 74 & = & 2 \times 37 \\
 44 & = & 2 \times 2 \times 11 \\
 \text{GCF (42, 74, 44)} & = & 2
 \end{array}$$

6) **54 , 10 , 38**

$$\begin{array}{rcl}
 54 & = & 2 \times 3 \times 3 \times 3 \\
 10 & = & 2 \times 5 \\
 38 & = & 2 \times 19 \\
 \text{GCF (54, 10, 38)} & = & 2
 \end{array}$$

7) **52 , 64 , 62**

$$\begin{array}{rcl}
 52 & = & 2 \times 2 \times 13 \\
 64 & = & 2 \times 2 \times 2 \times 2 \times 2 \times 2 \\
 62 & = & 2 \times 31 \\
 \text{GCF (52, 64, 62)} & = & 2
 \end{array}$$