

Name: _____

Remediation – LCM and GCF

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After you have watched the video from the wiki, you should try the following problems and then use the key to check your work. If you are successful on this worksheet, take the re-evaluation quiz. Be sure to follow the directions there.

Directions: Please determine the LCM of the following sets of numbers.

1. 12 & 18

$$\begin{array}{r} 12 \quad 24 \quad 36 \quad 48 \\ 18 \quad 36 \end{array}$$

2. 20 & 25

$$\begin{array}{r} 20 \quad 40 \quad 60 \quad 80 \quad 100 \\ 25 \quad 50 \quad 75 \quad 100 \end{array}$$

3. 14, 21 & 28

$$\begin{array}{r} 14 \quad 21 \quad 28 \\ 2 \cdot 7 \quad 3 \cdot 7 \quad 2 \cdot 2 \cdot 7 \\ 2 \cdot 3 \cdot 7 \\ 84 \end{array}$$

4. 270 & 630

$$\begin{array}{r} 270 \quad 630 \\ 2 \cdot 3^3 \cdot 5 \quad 2 \cdot 3^2 \cdot 5 \cdot 7 \\ 2 \cdot 3^3 \cdot 5 \cdot 7 \\ 1890 \end{array}$$

5. 40, 46 & 52

$$\begin{array}{r} 40 \quad 46 \quad 52 \\ 2^3 \cdot 5 \quad 2 \cdot 23 \quad 2^2 \cdot 13 \\ 2^3 \cdot 5 \cdot 13 \cdot 23 \\ 11,960 \end{array}$$

6. 5, 25 & 110

$$\begin{array}{r} 5 \quad 25 \quad 110 \\ 5 \quad 5^2 \quad 2 \cdot 5 \cdot 11 \\ 2 \cdot 5^2 \cdot 11 \\ 550 \end{array}$$

Directions: Please determine the GCF of the following sets of numbers.

7. 48 and 72

$$\begin{array}{r} 48 \quad 72 \\ 2 \cdot 24 \quad 2 \cdot 36 \\ 3 \cdot 16 \quad 3 \cdot 24 \\ 4 \cdot 12 \quad 4 \cdot 18 \\ 6 \cdot 8 \quad 6 \cdot 12 \\ 8 \cdot 9 \end{array}$$

8. 18, 24 and 36

$$\begin{array}{r} 18 \quad 24 \quad 36 \\ 2 \cdot 9 \quad 2 \cdot 12 \quad 2 \cdot 18 \\ 3 \cdot 6 \quad 3 \cdot 8 \quad 3 \cdot 12 \\ 4 \cdot 6 \quad 4 \cdot 9 \quad 6 \cdot 6 \end{array}$$

9. 54, 72 & 144

$$\begin{array}{r} 54 \quad 72 \quad 144 \\ 2 \cdot 27 \quad 2 \cdot 36 \quad 2 \cdot 72 \\ 3 \cdot 9 \quad 3 \cdot 12 \quad 3 \cdot 24 \\ 4 \cdot 6 \quad 4 \cdot 3 \quad 6 \cdot 4 \end{array}$$

10. 50, 75 and 125

$$\begin{array}{r} 50 \quad 75 \quad 125 \\ 2 \cdot 25 \quad 3 \cdot 25 \quad 5 \cdot 25 \\ 5 \cdot 5 \quad 5 \cdot 5 \quad 5 \cdot 5 \\ 2 \cdot 5^2 \quad 3 \cdot 5^2 \quad 5^3 \\ 5^3 \\ 125 \end{array}$$

11. 204, 1848 & 2040

$$\begin{array}{r} 204 \quad 1848 \quad 2040 \\ 2 \cdot 102 \quad 2 \cdot 924 \quad 2 \cdot 1020 \\ 2 \cdot 51 \quad 2 \cdot 462 \quad 2 \cdot 510 \\ 2 \cdot 25.5 \quad 2 \cdot 231 \quad 2 \cdot 255 \\ 3 \cdot 7 \quad 3 \cdot 77 \quad 3 \cdot 77 \\ 7 \cdot 11 \end{array}$$

12. 160, 224 & 352

$$\begin{array}{r} 160 \quad 224 \quad 352 \\ 2 \cdot 80 \quad 2 \cdot 112 \quad 2 \cdot 176 \\ 2 \cdot 40 \quad 2 \cdot 56 \quad 2 \cdot 88 \\ 2 \cdot 20 \quad 2 \cdot 28 \quad 2 \cdot 44 \\ 2 \cdot 10 \quad 2 \cdot 14 \quad 2 \cdot 22 \\ 2 \cdot 5 \quad 2 \cdot 7 \quad 2 \cdot 11 \\ 2^4 \cdot 5 \quad 2^4 \cdot 7 \quad 2^4 \cdot 11 \\ 2^4 \cdot 5 \cdot 7 \cdot 11 \\ 1120 \end{array}$$