

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

1) **24 , 46 , 46 =**

2) **20 , 94 , 16 =**

3) **16 , 72 , 74 =**

4) **4 , 20 , 88 =**

5) **100 , 2 , 72 =**

6) **86 , 6 , 64 =**

7) **72 , 64 , 56 =**

Greatest Common Factor: Solutions

1) **24 , 46 , 46**

$$24 = 2 \times 2 \times 2 \times 3$$

$$46 = 2 \times 23$$

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$$\text{GCF}(24, 46, 46) = 2$$

2) **20 , 94 , 16**

$$20 = 2 \times 2 \times 5$$

$$94 = 2 \times 47$$

$$16 = 2 \times 2 \times 2 \times 2$$

$$\text{GCF}(20, 94, 16) = 2$$

3) **16 , 72 , 74**

$$16 = 2 \times 2 \times 2 \times 2$$

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

$$74 = 2 \times 37$$

$$\text{GCF}(16, 72, 74) = 2$$

4) **4 , 20 , 88**

$$4 = 2 \times 2$$

$$20 = 2 \times 2 \times 5$$

$$88 = 2 \times 2 \times 2 \times 11$$

$$\text{GCF}(4, 20, 88) = 4$$

5) **100 , 2 , 72**

$$100 = 2 \times 2 \times 5 \times 5$$

$$2 = 2$$

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

$$\text{GCF}(100, 2, 72) = 2$$

6) **86 , 6 , 64**

$$86 = 2 \times 43$$

$$6 = 2 \times 3$$

$$64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$\text{GCF}(86, 6, 64) = 2$$

7) **72 , 64 , 56**

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

$$64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$56 = 2 \times 2 \times 2 \times 7$$

$$\text{GCF}(72, 64, 56) = 8$$