

Greatest Common Factor (J)

Name: _____

Date: _____

Use the prime factors of the numbers in each set to calculate the greatest common factor.

$$\text{a) } 60 = 2 \times 2 \times 3 \times 5$$

$$\text{b) } 56$$

$$80 = 2 \times 2 \times 2 \times 2 \times 5$$

$$70$$

$$\text{GCF} = 2 \times 2 \times 5 = 20$$

$$\text{c) } 99$$

$$\text{d) } 12$$

$$90$$

$$92$$

$$\text{e) } 20$$

$$\text{f) } 14$$

$$90$$

$$42$$

$$\text{g) } 18$$

$$\text{h) } 28$$

$$9$$

$$70$$

$$\text{i) } 20$$

$$\text{j) } 27$$

$$96$$

$$36$$

Greatest Common Factor (J) Answers

Name: _____

Date: _____

Use the prime factors of the numbers in each set to calculate the greatest common factor.

$$\text{a) } 60 = (2) \times (2) \times 3 \times (5)$$

$$80 = (2) \times (2) \times 2 \times 2 \times (5)$$

$$\text{GCF} = (2) \times (2) \times (5) = 20$$

$$\text{b) } 56 = (2) \times 2 \times 2 \times (7)$$

$$70 = (2) \times 5 \times (7)$$

$$\text{GCF} = (2) \times (7) = 14$$

$$\text{c) } 99 = (3) \times (3) \times 11$$

$$90 = 2 \times (3) \times (3) \times 5$$

$$\text{GCF} = (3) \times (3) = 9$$

$$\text{d) } 12 = (2) \times (2) \times 3$$

$$92 = (2) \times (2) \times 23$$

$$\text{GCF} = (2) \times (2) = 4$$

$$\text{e) } 20 = (2) \times 2 \times (5)$$

$$90 = (2) \times 3 \times 3 \times (5)$$

$$\text{GCF} = (2) \times (5) = 10$$

$$\text{f) } 14 = (2) \times (7)$$

$$42 = (2) \times 3 \times (7)$$

$$\text{GCF} = (2) \times (7) = 14$$

$$\text{g) } 18 = 2 \times (3) \times (3)$$

$$9 = (3) \times (3)$$

$$\text{GCF} = (3) \times (3) = 9$$

$$\text{h) } 28 = (2) \times 2 \times (7)$$

$$70 = (2) \times 5 \times (7)$$

$$\text{GCF} = (2) \times (7) = 14$$

$$\text{i) } 20 = (2) \times (2) \times 5$$

$$96 = (2) \times (2) \times 2 \times 2 \times 2 \times 3$$

$$\text{GCF} = (2) \times (2) = 4$$

$$\text{j) } 27 = (3) \times (3) \times 3$$

$$36 = 2 \times 2 \times (3) \times (3)$$

$$\text{GCF} = (3) \times (3) = 9$$