

Greatest Common Factor (H)

Name: _____

Date: _____

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

$$\text{a) } 80 = 2 \times 2 \times 2 \times 2 \times 5$$

$$\text{b) } 24$$

$$30 = 2 \times 3 \times 5$$

$$4$$

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

$$\text{c) } 96$$

$$\text{d) } 12$$

$$16$$

$$60$$

$$\text{e) } 70$$

$$\text{f) } 44$$

$$90$$

$$32$$

$$\text{g) } 20$$

$$\text{h) } 30$$

$$72$$

$$70$$

$$\text{i) } 28$$

$$\text{j) } 78$$

$$20$$

$$30$$

Greatest Common Factor (H) Answers

Name: _____

Date: _____

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

$$\text{a) } 80 = (2) \times 2 \times 2 \times 2 \times (5)$$

$$30 = (2) \times 3 \times (5)$$

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

$$\text{b) } 24 = (2) \times (2) \times 2 \times 3$$

$$4 = (2) \times (2)$$

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

$$\text{c) } 96 = (2) \times (2) \times (2) \times (2) \times 2 \times 3$$

$$16 = (2) \times (2) \times (2) \times (2)$$

$$\text{GCF} = (2) \times (2) \times (2) \times (2) = 16$$

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

$$60 = (2) \times (2) \times (3) \times 5$$

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

$$\text{e) } 70 = (2) \times (5) \times 7$$

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

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

$$\text{f) } 44 = (2) \times (2) \times 11$$

$$32 = (2) \times (2) \times 2 \times 2 \times 2$$

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

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

$$72 = (2) \times (2) \times 2 \times 3 \times 3$$

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

$$\text{h) } 30 = (2) \times 3 \times (5)$$

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

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

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

$$20 = (2) \times (2) \times 5$$

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

$$\text{j) } 78 = (2) \times (3) \times 13$$

$$30 = (2) \times (3) \times 5$$

$$\text{GCF} = (2) \times (3) = 6$$