

Name : _____

Greatest Common Factor

ES1

Find the greatest common factor for each pair of numbers.

1) 6, 9

$$\text{GCF}(6, 9) = \underline{\hspace{2cm}}$$

2) 4, 18

$$\text{GCF}(4, 18) = \underline{\hspace{2cm}}$$

3) 5, 15

$$\text{GCF}(5, 15) = \underline{\hspace{2cm}}$$

4) 12, 8

$$\text{GCF}(12, 8) = \underline{\hspace{2cm}}$$

5) 21, 9

$$\text{GCF}(21, 9) = \underline{\hspace{2cm}}$$

6) 4, 6

$$\text{GCF}(4, 6) = \underline{\hspace{2cm}}$$

7) 18, 24

$$\text{GCF}(18, 24) = \underline{\hspace{2cm}}$$

8) 14, 21

$$\text{GCF}(14, 21) = \underline{\hspace{2cm}}$$

9) 4, 2

$$\text{GCF}(4, 2) = \underline{\hspace{2cm}}$$

10) 15, 6

$$\text{GCF}(15, 6) = \underline{\hspace{2cm}}$$

Name: Answer Key

Greatest Common Factor

ES1

Find the greatest common factor for each pair of numbers.

1) 6, 9

$6 = 2 \times 3$
 $9 = 3 \times 3$

2×3
 3×3

GCF(6, 9) = 3

2) 4, 18

$4 = 2 \times 2$
 $18 = 2 \times 3 \times 3$

2×2
 $2 \times 3 \times 3$

GCF(4, 18) = 2

3) 5, 15

$5 = 1 \times 5$
 $15 = 3 \times 5$

1×5
 3×5

GCF(5, 15) = 5

4) 12, 8

$12 = 2 \times 2 \times 3$
 $8 = 2 \times 2 \times 2$

$2 \times 2 \times 3$
 $2 \times 2 \times 2$

GCF(12, 8) = 4

$2 \times 2 = 4$

5) 21, 9

$21 = 3 \times 7$
 $9 = 3 \times 3$

3×7
 3×3

GCF(21, 9) = 3

6) 4, 6

$4 = 2 \times 2$
 $6 = 2 \times 3$

2×2
 2×3

GCF(4, 6) = 2

7) 18, 24

$18 = 2 \times 3 \times 3$
 $24 = 2 \times 2 \times 2 \times 3$

$2 \times 3 \times 3$
 $2 \times 2 \times 2 \times 3$

GCF(18, 24) = 6

2×3

8) 14, 21

$14 = 2 \times 7$
 $21 = 3 \times 7$

2×7
 3×7

GCF(14, 21) = 7

9) 4, 2

$4 = 2 \times 2$
 $2 = 2 \times 1$

2×2
 2×1

GCF(4, 2) = 2

10) 15, 6

$15 = 3 \times 5$
 $6 = 2 \times 3$

3×5
 2×3

GCF(15, 6) = 3