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Name			

Greatest Common Factor

Date	Period

Find the greatest common factor of the given numbers.

- 1. 14 and 16
- $^{2.}$ 28 and 35
- 3. 12 and 22
- 4. 32 and 8
- 5. 20 and 5
- 6. 18 and 28
- 7. 12 and 10
- 8 and 26
- 9. 16 and 32
- 10. 25 and 10
- 11. 21 and 33
- 12. 14 and 24

greatest common factor	
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greatest	Common	iactor

- 2

7

- 2
- 8
- 5
- 2
- 2
- 2
- 16
- 5
- 3
- 2

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Solution Steps

 $^{1)}$ 14 and 16

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 14 are: 1, 2, 7, 14

Divisors of 16 are: 1, 2, 4, 8, 16

The largest number that divides 14 and 16 is 2, so the GCF = 2

 $^{^{2)}}$ 28 and 35

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 28 are: 1, 2, 4, 7, 14, 28

Divisors of 35 are: 1, 5, 7, 35

The largest number that divides 28 and 35 is 7, so the GCF = 7

 $^{\scriptscriptstyle 3)}$ 12 and 22

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 12 are: 1, 2, 3, 4, 6, 12

Divisors of 22 are: 1, 2, 11, 22

The largest number that divides 12 and 22 is 2, so the GCF = 2

 $^{\scriptscriptstyle 4)}$ 32 and 8

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 32 are: 1, 2, 4, 8, 16, 32

Divisors of 8 are: 1, 2, 4, 8

The largest number that divides 32 and 8 is 8, so the GCF = 8

$^{\scriptscriptstyle{5)}}$ 20 and 5

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 20 are: 1, 2, 4, 5, 10, 20

Divisors of 5 are: 1, 5

The largest number that divides 20 and 5 is 5, so the GCF = 5

$^{6)}$ 18 and 28

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 18 are: 1, 2, 3, 6, 9, 18

Divisors of 28 are: 1, 2, 4, 7, 14, 28

The largest number that divides 18 and 28 is 2, so the GCF = 2

$^{^{7)}}$ 12 and 10

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 12 are: 1, 2, 3, 4, 6, 12

Divisors of 10 are: 1, 2, 5, 10

The largest number that divides 12 and 10 is 2, so the GCF = 2

$^{8)} 8 \text{ and } 26$

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 8 are: 1, 2, 4, 8

Divisors of 26 are: 1, 2, 13, 26

The largest number that divides 8 and 26 is 2, so the GCF = 2

$^{ ext{\tiny 9)}}\,16 ext{ and } 32$

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 16 are: 1, 2, 4, 8, 16

Divisors of 32 are: 1, 2, 4, 8, 16, 32

The largest number that divides 16 and 32 is 16, so the GCF = 16

$^{\scriptscriptstyle{10)}}25 \ \mathrm{and} \ 10$

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 25 are: 1, 5, 25

Divisors of 10 are: 1, 2, 5, 10

The largest number that divides 25 and 10 is 5, so the GCF = 5

$^{^{11)}}21 \text{ and } 33$

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 21 are: 1, 3, 7, 21

Divisors of 33 are: 1, 3, 11, 33

The largest number that divides 21 and 33 is 3, so the GCF = 3

$^{^{12)}}14 \text{ and } 24$

First list the factors of the number (the numbers that divide each number with zero remainder)

Divisors of 14 are: 1, 2, 7, 14

Divisors of 24 are: 1, 2, 3, 4, 6, 8, 12, 24

The largest number that divides $14 \ and \ 24$ is 2, so the GCF = 2