MathVine	_	Pre-Algebra
iviatii viiic		i ic Aigebia

Name			
INGILIO			

Greatest Common Factor

Find the greatest common factor of the given numbers.

- 1. 28 and 38
- $_{2}$ 38 and 30
- 3. 21 and 9
- 4. 10 and 30
- 5. 15 and 6
- 6. 30 and 24
- 7. 4 and 22
- 8. 28 and 34
- 9. 6 and 16
- 10. 15 and 25
- 11. 18 and 34
- 12. 14 and 34

greatest common factor

MathVine - Pre-Algebra

Name			

Greatest Common Factor

Date_____Period____

Find the greatest common factor of the given numbers.

1.	28	and	38
	40	ana	\mathbf{v}

- $_{2}$ 38 and 30
- 3. 21 and 9
- 4. 10 and 30
- 5. 15 and 6
- 6. 30 and 24
- 7. 4 and 22
- 8. 28 and 34
- 9. 6 and 16
- 10. 15 and 25
- 18 and 34
- 12. 14 and 34

greatest	Common	iactor

- 2
- 2
- 3
- 10
- 3
- 6
- $\mathbf{2}$
- 2
- 2
- 5
- 2
- 2

MathVine -	Pre-Algebra
iviati viiio	1 10 / 1190014

Greatest Common Factor

Date	Period

Solution Steps

 $^{_{1)}}28 \text{ and } 38$

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 38 are: 1, 2, 19, 38

The largest number that divides 28 and 38 is 2, so the GCF = 2

 $^{\scriptscriptstyle 2)}$ 38 and 30

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

Divisors of 38 are: 1, 2, 19, 38

Divisors of 30 are: 1, 2, 3, 5, 6, 10, 15, 30

The largest number that divides 38 and 30 is 2, so the GCF = 2

 $^{\scriptscriptstyle 3)}$ 21 and 9

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 9 are: **1**, **3**, 9

The largest number that divides 21 and 9 is 3, so the GCF = 3

 $^{\scriptscriptstyle{4)}}$ 10 and 30

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

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

Divisors of 30 are: 1, 2, 3, 5, 6, 10, 15, 30

The largest number that divides 10 and 30 is 10, so the GCF = 10

$^{\scriptscriptstyle{5)}}$ 15 and 6

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

Divisors of 15 are: 1, 3, 5, 15

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

The largest number that divides 15 and 6 is 3, so the GCF = 3

$^{\scriptscriptstyle 6)}$ 30 and 24

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

Divisors of 30 are: 1, 2, 3, 5, 6, 10, 15, 30

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

The largest number that divides 30 and 24 is 6, so the GCF = 6

$^{^{7)}}$ 4 and 22

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

Divisors of 4 are: 1, 2, 4

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

The largest number that divides 4 and 22 is 2, so the GCF = 2

$^{*)}$ 28 and 34

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 34 are: 1, 2, 17, 34

The largest number that divides 28 and 34 is 2, so the GCF = 2

$^{9)} 6 \text{ and } 16$

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

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

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

The largest number that divides 6 and 16 is 2, so the GCF = 2

$^{\scriptscriptstyle{10)}}15 \ \mathrm{and} \ 25$

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

Divisors of 15 are: 1, 3, 5, 15

Divisors of 25 are: 1, 5, 25

The largest number that divides 15 and 25 is 5, so the GCF = 5

$^{_{11)}}18 \text{ and } 34$

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 34 are: 1, 2, 17, 34

The largest number that divides 18 and 34 is 2, so the GCF = 2

$^{^{12)}}14 \text{ and } 34$

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 34 are: 1, 2, 17, 34

The largest number that divides 14 and 34 is 2, so the GCF = 2