



Factor a common numerical factor from an expression

1

Find the greatest common factor of these numbers from their factorization by choosing the set of shared factors

$$6(= 2 \times 3)$$

$$2(= 2)$$

A 4

B 7

C 3

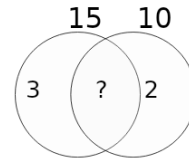
D 2

E 11

F 6

2

Complete the factor diagram and find the GCF of these numbers.



A 24

B 28

C 5

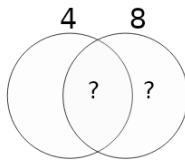
D 8

E 1

F 15

3

Use the factor diagram to find the greatest common factor of these numbers.



A 4

B 21

C 7

D 22

E 15

F 5

4

2, 6

A 8

B 4

C 6

D 2

E 1

F 3

5

Which answer is the same expression as this

$$5r - 30$$

A

$$5(r - 11)$$

B

$$5(r - 6)$$

6

Remove a common factor from this quadratic to make it easier to factor

$$2m^2 - 24m + 54$$

A

$$2(m^2 + 27m - 12)$$

B

$$2(m^2 - 12m + 27)$$

7

Which answer is the same expression as this

$$2q - 16$$

A

$$(q^2 + 16)$$

B

$$2(q - 8)$$

8

Remove a common factor from this quadratic to make it easier to factor

$$6t^2 - 6t - 120$$

A

$$6(t^2 - 1t - 20)$$

B

$$6(t^2 + 20t - 1)$$

**Factor a common numerical factor from an expression****9**

Which answer is the same expression as this
 $4y + 24$

A

$$(y^4 + 24)$$

B

$$4(y + 6)$$

10

Remove a common factor from this quadratic to make it easier to factor

$$9r^2 + 63r + 108$$

A

$$9(r^2 + 7r + 12)$$

B

$$9(r^2 + 7r - 12)$$

11

Which answer is the same expression as this
 $3w - 18$

A

$$(w^3 + 18)$$

B

$$3(w - 6)$$

12

Remove a common factor from this quadratic to make it easier to factor

$$6x^2 - 48x + 72$$

A

$$6(x^2 + 12x - 8)$$

B

$$6(x^2 - 8x + 12)$$