

**Factor expressions using a common factor**

1 $(10 \times 8) + (6 \times 8)$

A 15×15

B 18×8

C 16×25

D 16×8

E 24×11

F 24×13

2 Which answer is the same expression as this
 $xy - 3x$

A

$x(y + 3)$

B

$x(y - 3)$

3 Which answer is the same expression as this
 $15x^2 + 10x$

A $2(5x + x)$

B $x^2(x - 2)$

C $5(x - x)$

D $5x(3x + 2)$

E $2x - x$

4 Which answer is the same expression as this
 $8t + 32$

A

$8(t + 32)$

B

$8(t + 4)$

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

$$-8p^2 + 64p - 96$$

A $8(p^2 + 8p + 12)$

B $-8(p^2 - 8p - 12)$

C $-8(p^2 - 12p - 8)$

D $8(p^2 - 8p + 12)$

E $-8(p^2 - 8p + 12)$

6 Which answer is the same expression as this
 $qn - 8q$

A

$8q(n + 8)$

B

$q(n - 8)$

7 Which answer is the same expression as this
 $27w^2 + 45w$

A $5(9w + w)$

B $w(w - 5)$

C $9w(3w + 5)$

D $9(w - w)$

E $9(9w + w)$

8 Which answer is the same expression as this
 $3z - 27$

A

$3(z + 9)$

B

$3(z - 9)$

**Factor expressions using a common factor****9**

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

$$-5m^2 + 35m - 50$$

A $-5(m^2 - 7m - 10)$

B $-5(m^2 - 7m + 10)$

C $5(m^2 + 7m + 10)$

D $-5(m^2 - 10m - 7)$

E $5(m^2 - 7m + 10)$

10

Which answer is the same expression as this

$$py - 4p$$

A

$$p(y - 4)$$

B

$$4(p + y)$$

11

Which answer is the same expression as this

$$56x^2 + 40x$$

A $8x(7x + 5)$

B $x(x - 5)$

C $8(x - x)$

D $5x - x$

E $x^2(x - 5)$

12

Which answer is the same expression as this

$$4n + 12$$

A

$$4(n + 12)$$

B

$$4(n + 3)$$