

## Factorising Linear Expressions

Factorise fully:

1.  $20x + 15$

2.  $20x - 15$

3.  $10x - 15$

4.  $5x - 15$

5.  $15 - 5x$

6.  $15 - 5x - 10y$

7.  $30 - 10x - 20y$

8.  $-30 - 10x - 20y$

9.  $-20y - 10x$

10.  $-20y - 17x$

11.  $13x - 17x$

12.  $26x - 34x$

13.  $26x - 34x + x$

14.  $x + 26x$

15.  $x + 26x^2$

16.  $2x + 26x^2$

17.  $2xy + 26x^2y$

18.  $2xy^2 + 26x^2y$

19.  $2xy^2 - 26x^2y$

20.  $2x - 26x^2y$

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10.  $-20y - 17x$

11.  $13x - 17x$

12.  $26x - 34x$

13.  $26x - 34x + x$

14.  $x + 26x$

15.  $x + 26x^2$

16.  $2x + 26x^2$

17.  $2xy + 26x^2y$

18.  $2xy^2 + 26x^2y$

19.  $2xy^2 - 26x^2y$

20.  $2x - 26x^2y$

## Factorising Linear Expressions: ANSWERS

Factorise fully:

1.  $20x + 15 = 5(4x + 3)$

2.  $20x - 15 = 5(4x - 3)$

3.  $10x - 15 = 5(2x - 3)$

4.  $5x - 15 = 5(2x - 3)$

5.  $15 - 5x = 5(3 - x)$

6.  $15 - 5x - 10y = 5(3 - x - 2y)$

7.  $30 - 10x - 20y = 10(3 - x - 2y)$

8.  $-30 - 10x - 20y = -10(3 + x + 2y)$

9.  $-20y - 10x = -10(2y + x)$

10.  $-20y - 17x = -(20y + 17x)$

11.  $13x - 17x = x(13 - 17)$

12.  $26x - 34x = 2x(13 - 17)$

13.  $26x - 34x + x = x(26 - 34 + 1)$

14.  $x + 26x = x(1 + 26)$

15.  $x + 26x^2 = x(1 + 26x)$

16.  $2x + 26x^2 = 2x(1 + 13x)$

17.  $2xy + 26x^2y = 2xy(1 + 13x)$

18.  $2xy^2 + 26x^2y = 2xy(y + 13x)$

19.  $2xy^2 - 26x^2y = 2xy(y - 13x)$

20.  $2x - 26x^2y = 2x(1 - 13xy)$

## Factorising Linear Expressions: ANSWERS

Factorise fully:

1.  $20x + 15 = 5(4x + 3)$

2.  $20x - 15 = 5(4x - 3)$

3.  $10x - 15 = 5(2x - 3)$

4.  $5x - 15 = 5(2x - 3)$

5.  $15 - 5x = 5(3 - x)$

6.  $15 - 5x - 10y = 5(3 - x - 2y)$

7.  $30 - 10x - 20y = 10(3 - x - 2y)$

8.  $-30 - 10x - 20y = -10(3 + x + 2y)$

9.  $-20y - 10x = -10(2y + x)$

10.  $-20y - 17x = -(20y + 17x)$

11.  $13x - 17x = x(13 - 17)$

12.  $26x - 34x = 2x(13 - 17)$

13.  $26x - 34x + x = x(26 - 34 + 1)$

14.  $x + 26x = x(1 + 26)$

15.  $x + 26x^2 = x(1 + 26x)$

16.  $2x + 26x^2 = 2x(1 + 13x)$

17.  $2xy + 26x^2y = 2xy(1 + 13x)$

18.  $2xy^2 + 26x^2y = 2xy(y + 13x)$

19.  $2xy^2 - 26x^2y = 2xy(y - 13x)$

20.  $2x - 26x^2y = 2x(1 - 13xy)$