

Maths

Solving equations with unknown on both sides

Miss Parnham



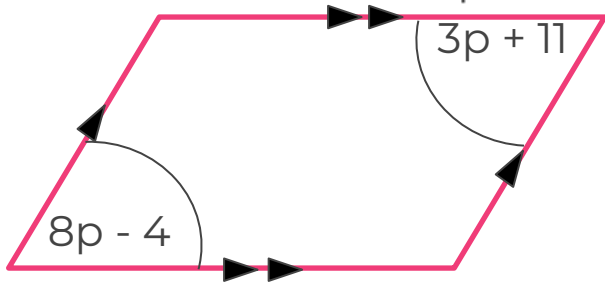
Solving equations with unknown on both sides

1. Solve the equations.

a) $3v - 5 = v + 1$ b) $4w + 7 = 7w - 8$

c) $4x - 3 = 6x - 8$ d) $9y + 1 = 15y - 1$

2. Form and solve an equation for p .

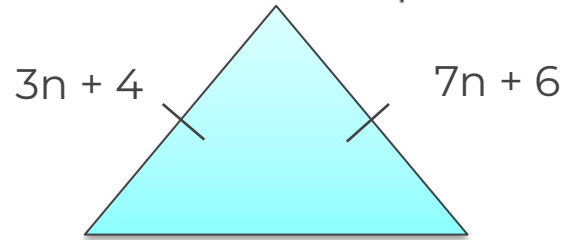


3. Solve the equations.

a) $4e + 7 = e - 2$ b) $3f - 8 = 5f + 10$

c) $2g + 5 = 4g + 12$ d) $5h - 3 = 10h - 1$

4. Form and solve an equation for n .



Solving equations with unknown on both sides

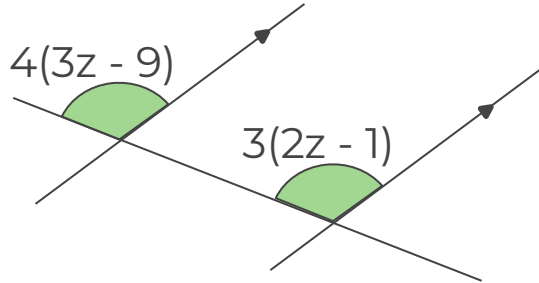
5. Solve the equations.

a) $4(w - 9) = w - 6$

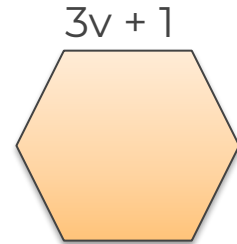
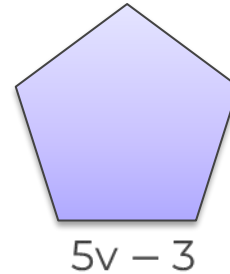
b) $2(x + 7) = 3(x + 5)$

c) $5(2y + 1) = 4(4y - 4)$

6. Form and solve an equation for z .



7. This pair of regular polygons have the same perimeter.



Form and solve an equation to find v .



Answers



Solving equations with unknown on both sides

1. Solve the equations.

a) $3v - 5 = v + 1$ b) $4w + 7 = 7w - 8$

$v = 3$

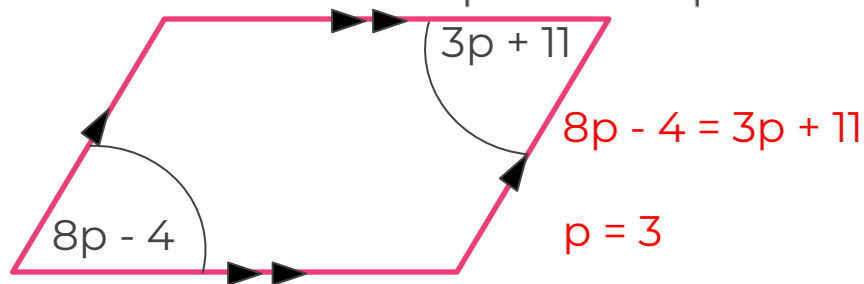
$w = 5$

c) $4x - 3 = 6x - 8$ d) $9y + 1 = 15y - 1$

$x = 2.5$

$y = \frac{1}{3}$

2. Form and solve an equation for p



3. Solve the equations.

a) $4e + 7 = e - 2$ b) $3f - 8 = 5f + 10$

$e = -3$

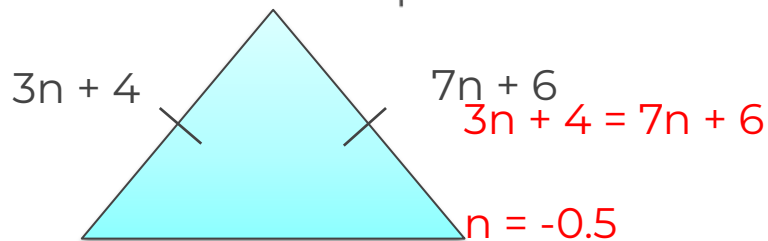
$f = -9$

c) $2g + 5 = 4g + 12$ d) $5h - 3 = 10h - 1$

$g = -3.5$

$d = -0.4$

4. Write and solve an equation for n.



Solving equations with unknown on both sides

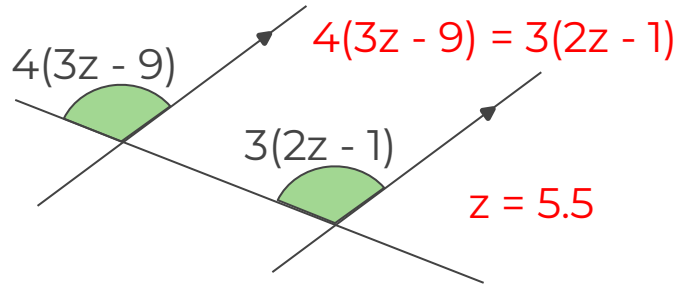
5. Solve the equations.

a) $4(w - 9) = w - 6$ $w = 10$

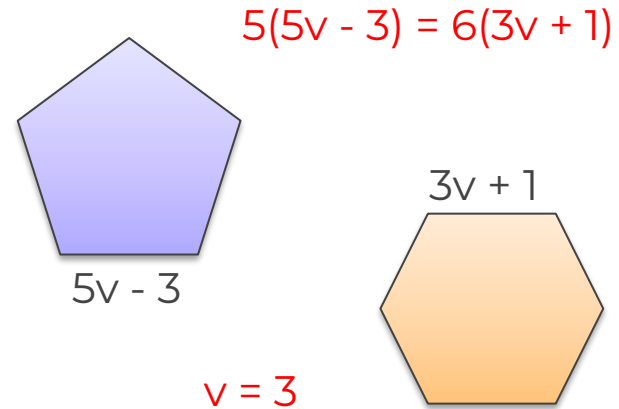
b) $2(x + 7) = 3(x + 5)$ $x = -1$

c) $5(2y + 1) = 4(4y - 4)$ $y = 3.5$

6. Write and solve an equation for z .



7. This pair of regular polygons have the same perimeter.



Form and solve an equation to find v .

