

Simultaneous equations: forming and solving

Exit ticket ANSWERS Name _____

- 1 There are 3 times as many red counters (r) as blue (b). Write an equation.

$$r = 3b$$

- 2 2 kites and 3 frisbees cost £19. 1 kite and 1 frisbee cost £7.50. Let k and f be the costs in pounds. Write two equations, find f , then use (1) to find k . Answer in a sentence.

A kite costs £3.50 and a frisbee £4.

- 3 A scarf is 30 g heavier than a hat. 3 scarves and 4 hats weigh 1140 g. Let s and h be the weights in grams. Find each.

A scarf weighs 180 g and a hat 150 g.

The Maths Habit

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NEXT LESSON

- 1 There are 3 times as many red counters (r) as blue (b). Write an equation.

$$r = 3b$$

TESTS

Forming an equation from “times as many”

LOOK FOR

$3r = b$ the reversal: test it, 2 blue and 6 red

FIX IT

There are 4 times as many cars (c) as vans (v). Write an equation.

$$c = 4v$$

- 2 2 kites and 3 frisbees cost £19. 1 kite and 1 frisbee cost £7.50. Let k and f be the costs in pounds. Write two equations, find f , then use (1) to find k . Answer in a sentence.

A kite costs £3.50 and a frisbee £4.

TESTS

Forming two equations from a story and solving them

LOOK FOR

$k = \frac{2}{7}$ $2k = 7$ divided the wrong way round

A kite costs £4 and a frisbee £3.50. swapped the costs: test the answer in the story

FIX IT

2 notebooks and 5 pencils cost £4.50.

1 notebook and 1 pencil cost £1.50.

Let n and p be the costs in pounds.

Find each.

A notebook costs £1 and a pencil 50p.

- 3 A scarf is 30 g heavier than a hat. 3 scarves and 4 hats weigh 1140 g. Let s and h be the weights in grams. Find each.

A scarf weighs 180 g and a hat 150 g.

TESTS

“More than” gives a negative coefficient

LOOK FOR

A scarf weighs 150 g and a hat 180 g. swapped them: the scarf is the heavier

FIX IT

A tin of soup is 40 g heavier than a jar of honey. 2 tins and 3 jars weigh 1580 g.

Let t and h be the weights in grams.

Find each.

A tin weighs 340 g and a jar 300 g.