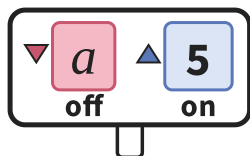


Substitution

ANSWERS

1

Work out $3a + 4$ when $a = 5$.



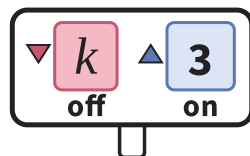
$$= 3 \times 5 + 4$$

$$= 15 + 4$$

Answer 19

2

Work out $4k - 6$ when $k = 3$.



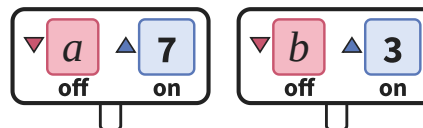
$$= 4 \times 3 - 6$$

$$= 12 - 6$$

Answer 6

3

Work out $2a + 5b$
when $a = 7$ and $b = 3$.



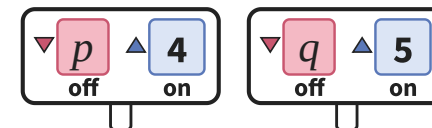
$$= 2 \times 7 + 5 \times 3$$

$$= 14 + 15$$

Answer 29

4

Work out $10p - 3q$
when $p = 4$ and $q = 5$.



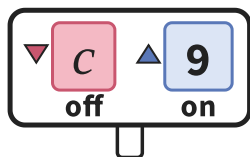
$$= 10 \times 4 - 3 \times 5$$

$$= 40 - 15$$

Answer 25

5

Work out $5c + 2$ when $c = 9$.



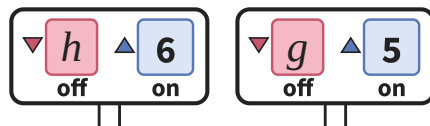
$$= 5 \times 9 + 2$$

$$= 45 + 2$$

Answer 47

6

Work out $4h - 2g$
when $h = 6$ and $g = 5$.



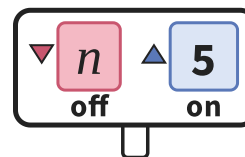
$$= 4 \times 6 - 2 \times 5$$

$$= 24 - 10$$

Answer 14

7

The cost of n tickets is
 $4n + 3$ pounds.
Find the cost when $n = 5$.



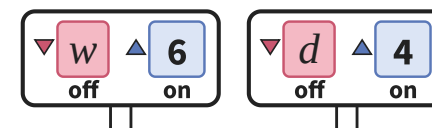
$$= 4 \times 5 + 3$$

$$= 20 + 3$$

Cost £23

8

A team with w wins and d draws has
 $3w + d$ points. Find the points
when $w = 6$ and $d = 4$.



$$= 3 \times 6 + 4$$

$$= 18 + 4$$

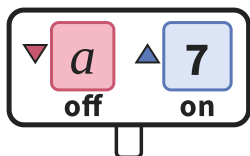
Points 22

Substitution *further practice*

ANSWERS

9

Work out $6a + 5$ when $a = 7$.



$$= 6 \times 7 + 5$$

$$= 42 + 5$$

Answer 47

10

Work out $8p - 3q$
when $p = 4$ and $q = 9$.



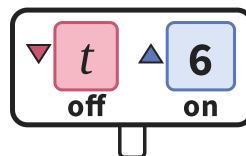
$$= 8 \times 4 - 3 \times 9$$

$$= 32 - 27$$

Answer 5

11

Work out $7 + 4t$ when $t = 6$.



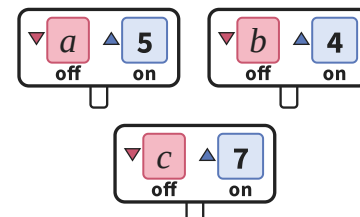
$$= 7 + 4 \times 6$$

$$= 7 + 24$$

Answer 31

12

Work out $2a + 3b - c$
when $a = 5$ and $b = 4$ and $c = 7$.



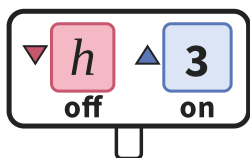
$$= 2 \times 5 + 3 \times 4 - 7$$

$$= 10 + 12 - 7$$

Answer 15

13

A kayak costs $9h + 6$ pounds to
hire for h hours.
Find the cost when $h = 3$.



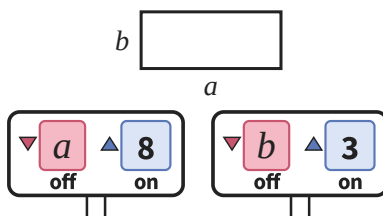
$$= 9 \times 3 + 6$$

$$= 27 + 6$$

Cost £33

14

Perimeter = $2a + 2b$.
Find the perimeter when
 $a = 8$ cm and $b = 3$ cm.



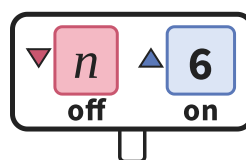
$$= 2 \times 8 + 2 \times 3$$

$$= 16 + 6$$

Perimeter 22 cm

15

Which is bigger when $n = 6$: $5n - 4$
or $3n + 9$?



$$5n - 4$$

$$3n + 9$$

$$= 5 \times 6 - 4$$

$$= 3 \times 6 + 9$$

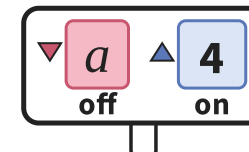
$$= 30 - 4$$

$$= 18 + 9$$

Bigger $3n + 9$

16

Ali works out $3a + 2$ when $a = 4$.
What has Ali done wrong?



Ali writes

$$3a + 2 = 34 + 2 = 36$$

Ali's mistake is

$3a$ means 3×4 , not 34

The right answer is 14