

Substitution: a Letter Stands for a Number

ANSWERS

1

$$a = 4$$

Work out $a + 3$. Put the number in the box. Then work it out.

$$\overset{a}{\boxed{4}} + 3 = \boxed{7}$$

Answer 7

2

$$b = 6$$

Work out $b - 2$. Put the number in the box. Then work it out.

$$\overset{b}{\boxed{6}} - 2 = \boxed{4}$$

Answer 4

3

$$n = 3$$

Work out $n + 9$. Put the number in the box. Then work it out.

$$\overset{n}{\boxed{3}} + 9 = \boxed{12}$$

Answer 12

4

$$k = 7$$

Work out $15 - k$. Put the number in the box. Then work it out.

$$15 - \overset{k}{\boxed{7}} = \boxed{8}$$

Answer 8

5

$$a = 4$$

Work out $3a$. $3a$ means $3 \times a$. Put the number in the box. Then work it out.

$$3 \times \overset{a}{\boxed{4}} = \boxed{12}$$

Answer 12

6

$$y = 5$$

Work out $2y + 1$. Put the number in the box. Then work it out.

$$2 \times \overset{y}{\boxed{5}} + 1 = \boxed{11}$$

Answer 11

7

$$a = 2$$

Which is bigger, $5a$ or $a + 5$?

$$\begin{array}{l} 5a \\ 5 \times \overset{a}{\boxed{2}} = \boxed{10} \\ a + 5 \\ \overset{a}{\boxed{2}} + 5 = \boxed{7} \end{array}$$

Bigger $5a$: 10 is more than 7

8

$$\text{cost} = 6 \times \text{number of tickets}$$

Cinema tickets cost £6 each. Find the cost of 3 tickets.

$$6 \times \overset{\text{tickets}}{\boxed{3}} = \boxed{18}$$

Cost £18

Substitution: a Letter Stands for a Number *further practice*

ANSWERS

9

$$a = 3, b = 5$$

Work out $a + b$. Put the number in the box. Then work it out.

$$\overset{a}{\boxed{3}} + \overset{b}{\boxed{5}} = \boxed{8}$$

Answer 8

10

$$x = 7, y = 2$$

Work out $x - y$. Put the number in the box. Then work it out.

$$\overset{x}{\boxed{7}} - \overset{y}{\boxed{2}} = \boxed{5}$$

Answer 5

11

$$a = 2, b = 4$$

Work out $3a + b$.

$$3 \times \overset{a}{\boxed{2}} + \overset{b}{\boxed{4}} = \boxed{10}$$

Answer 10

12

$$p = 5, q = 3$$

Work out $2p - q$.

$$2 \times \overset{p}{\boxed{5}} - \overset{q}{\boxed{3}} = \boxed{7}$$

Answer 7

13

$$a = 6$$

Circle every one that makes 10.

$a + 4$	$2a$
$16 - a$	$10a$

14

$$\text{pay} = 8 \times \text{hours} + 5$$

Jay is paid £8 an hour and £5 for travel. Find his pay for 4 hours.

$$8 \times \overset{\text{hours}}{\boxed{4}} + 5 = \boxed{37}$$

Pay £37

15

$$\text{perimeter} = 2 \times \text{length} + 2 \times \text{width}$$

A rectangle is 6 cm long and 3 cm wide. Find its perimeter.

$$2 \times \overset{\text{length}}{\boxed{6}} + 2 \times \overset{\text{width}}{\boxed{3}} = \boxed{18}$$

Perimeter 18 cm

16

$$a = 4$$

Sam says $3a = 34$. Is Sam right? Explain.

$$3 \times \overset{a}{\boxed{4}} = \boxed{12}$$

No. $3a$ means $3 \times a$,
so $3 \times 4 = 12$.