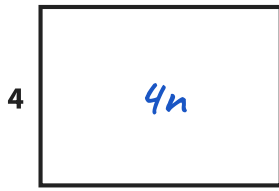


Algebraic Notation: Multiplying

ANSWERS

1 number first, no $\times$ sign

Write the area using algebraic notation.



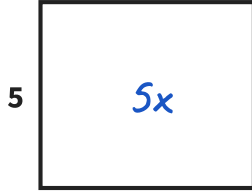
n

Area = $4 \times n$

Area = $4n$

2

Write the area using algebraic notation.



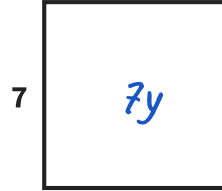
x

Area = $5 \times x$

Area = $5x$

3

Write the area using algebraic notation.



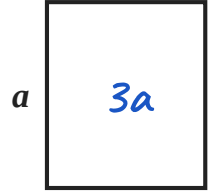
y

Area = $7 \times y$

Area = $7y$

4

Write the area using algebraic notation.



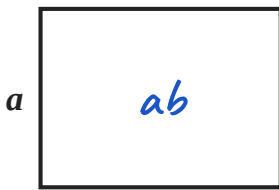
3

Area = $a \times 3$

Area = $3a$

5 Notice the change!

Write the area using algebraic notation.



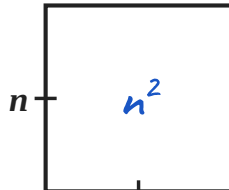
b

Area = $a \times b$

Area = ab

6

Write the area using algebraic notation.



n

Area = $n \times n$

Area = n^2

7

Pens cost p pence each.
Write an expression for the cost of 6 pens.

$6 \times p$

Answer $6p$

8

A square has sides of length n .
Write an expression for its perimeter and one for its area.

$4 \times n$ and $n \times n$

Answer $4n$ and n^2

Algebraic Notation: Multiplying further practice

ANSWERS

9

Write each one using algebraic notation.

$7 \times m$ $7m$

$c \times d$ cd

$k \times k$ k^2

10

Simplify. Write the number first and the letters in alphabetical order.

$2 \times a \times b$ $2ab$

$y \times 4 \times x$ $4xy$

$3 \times n \times n$ $3n^2$

11

Which two of these mean the same as $4m$?

$4 + m$

$m + m + m + m$

$4 \times m$

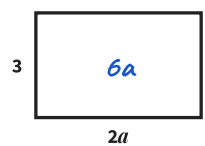
$m \times m \times m \times m$

$4m$ means $4 \times m$

Answer $m + m + m + m$ and $4 \times m$

12

Write the area of the rectangle using algebraic notation.



$3 \times 2a$

Area $6a$

13

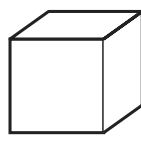
A car park has 3 floors. Each floor has r rows of spaces. Each row has c spaces. Write an expression for the number of spaces in the car park.

$3 \times r \times c$

Answer $3cr$

14

A cube has edges of length y cm.
Write an expression for its volume, as simply as possible.



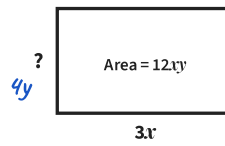
y cm

$y \times y \times y$

Volume $y^3 \text{ cm}^3$

15

The area of this rectangle is $12xy$.
Find the missing length.



$3x$

$3x \times 4y = 12xy$

Answer $4y$

16

Ali says $2a \times 3a = 6a$.
Is Ali right? Explain.

$2 \times 3 = 6$ and $a \times a = a^2$

Answer No, it is $6a^2$