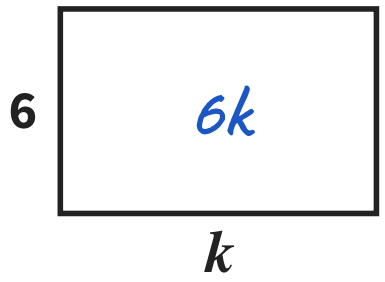
Algebraic notation: multiplying

ANSWERS

1

Write the area using algebraic notation.

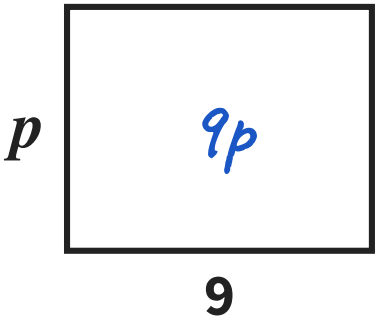


Area = 6 × k

Area = $6k$

2

Write the area using algebraic notation.

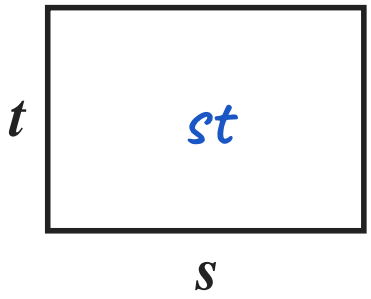


Area = p × 9

Area = $9p$

3

Write the area using algebraic notation.

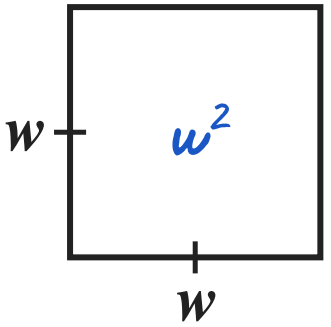


Area = t × s

Area = st

4

Write the area using algebraic notation.

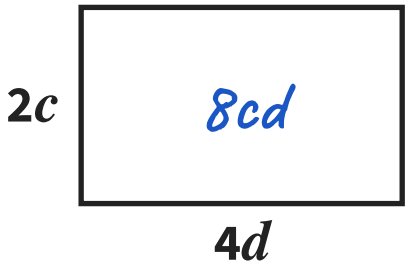


Area = w × w

Area = w^2

5

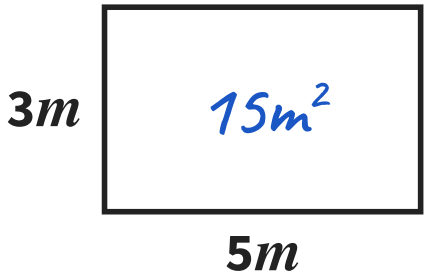
Write the area using algebraic notation.



Area = $8cd$

6

Write the area using algebraic notation.



Area = $15m^2$

7

Write each one using algebraic notation.

$r \times 8$ — $8r$

$y \times x \times 3$ — $3xy$

$h \div 5$ — $\frac{h}{5}$

8

Sam writes $n \times n = 2n$. Is Sam right? Explain your answer.

No. 2n means n + n

n × n means n squared

n = 3: 3 × 3 = 9 but 2 × 3 = 6

Answer: No

Algebraic notation: multiplying *further practice*

ANSWERS

9

Simplify $4a \times 3b$.

$4 \times 3 = 12$, $a \times b = ab$

Answer $12ab$

10

Simplify $6t \times t$.

$6 \times t \times t$

$t \times t = t^2$

Answer $6t^2$

11

Zoe buys n packs of cards.
Each pack has 12 cards.
Write an expression for the number of cards.

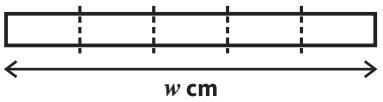


$n \times 12$

Cards $12n$

12

A ribbon is w cm long. It is cut into 5 equal pieces. Write an expression for the length of one piece.

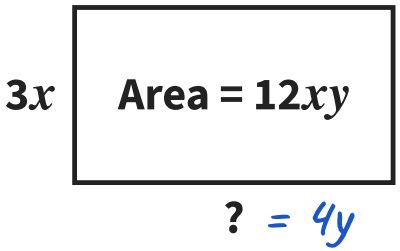


$w \div 5$

Answer $\frac{w}{5}$ cm

13

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

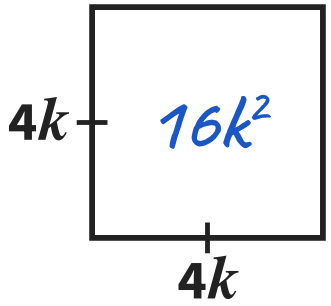


$3 \times 4 = 12$, $x \times y = xy$

Answer $4y$

14

A square has sides of length $4k$.
Write an expression for its area.

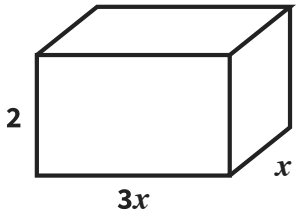


$4k \times 4k = 16k^2$

Area $16k^2$

15

Write an expression for the volume of this cuboid.



$3x \times 2 \times x$

Volume $6x^2$

16

Priya says $4c \times 5d$ and $2c \times 10d$ are the same. Is she right?
Explain your answer.

$4c \times 5d = 20cd$

$2c \times 10d = 20cd$

Both are $20cd$

Answer Yes