

Name: Class:

Finding the area of rectangles with missing unit squares

Given that each square has an area of 1 square unit, find the area of the shaded part in the shape below.

Example:

Firstly, let's find the area of the rectangle.

Length = 4 units. Width = 3 units.

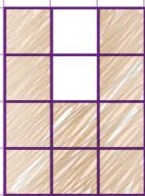
Area = length x width = 4×3
= 12 square units.

Secondly, let's find the area of the unshaded squares.

Number of unshaded squares = 2.

Area of 1 square = 1 square units.

Area = 2×1 square unit = 2 square units.

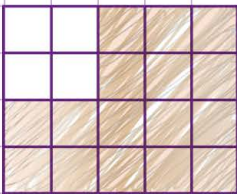


Finally, **area of the shaded part** = **area of the rectangle** - **area of the unshaded squares**.

= $(12 - 2)$ square units = 10 square units

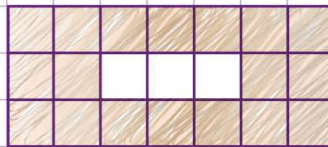
So, area of the shaded part = 10 square units.

a.



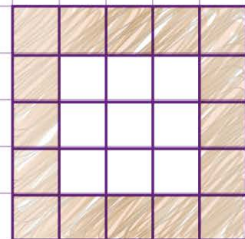
Area of the shaded part is

b.



Area of the shaded part is

c.



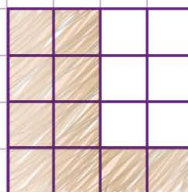
Area of the shaded part is

d.



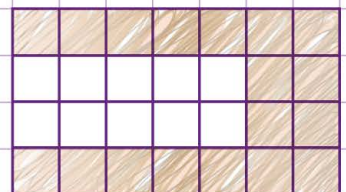
Area of the shaded part is

e.



Area of the shaded part is

f.



Area of the shaded part is

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Finding the area of rectangles with missing unit squares

Given that each square has an area of 1 square unit, find the area of the shaded part in the shape below.

Example:

Firstly, let's find the area of the rectangle.

Length = 4 units. Width = 3 units.

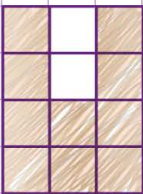
$$\text{Area} = \text{length} \times \text{width} = 4 \times 3 = 12 \text{ square units.}$$

Secondly, let's find the area of the unshaded squares.

Number of unshaded squares = 2.

Area of 1 square = 1 square units.

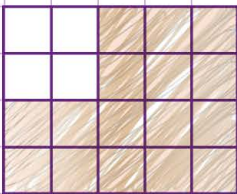
$$\text{Area} = 2 \times 1 \text{ square unit} = 2 \text{ square units.}$$



Finally, **area of the shaded part** = **area of the rectangle** - **area of the unshaded squares**
 = (12 - 2) square units = 10 square units

So, area of the shaded part = 10 square units.

a.



$$a_1 = 5 \times 4 = 20$$

$$a_2 = 2 \times 2 = 4$$

$$a = a_1 - a_2$$

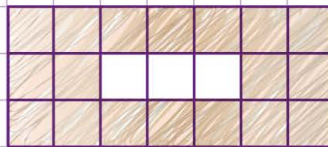
$$= 20 - 4$$

$$= 16$$

Area of the shaded part is

16 square units

b.



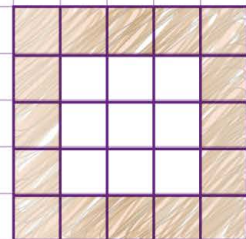
$$a_1 = 7 \times 3 = 21 ; a_2 = 3 \times 1 = 3$$

$$a = a_1 - a_2 = 21 - 3 = 18$$

Area of the shaded part is

18 square units

c.



$$a_1 = 5 \times 5 = 25$$

$$a_2 = 3 \times 3 = 9$$

$$a = a_1 - a_2$$

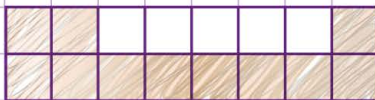
$$= 25 - 9$$

$$= 16$$

Area of the shaded part is

16 square units

d.



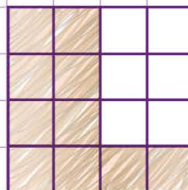
$$a_1 = 8 \times 2 = 16 ; a_2 = 5 \times 1 = 5$$

$$a = a_1 - a_2 = 16 - 5 = 11$$

Area of the shaded part is

11 square units

e.



$$a_1 = 4 \times 4 = 16$$

$$a_2 = 2 \times 3 = 6$$

$$a = a_1 - a_2$$

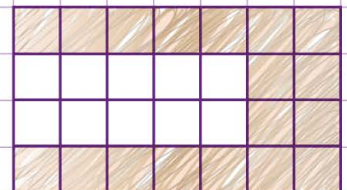
$$= 16 - 6$$

$$= 10$$

Area of the shaded part is

10 square units

f.



$$a = a_1 - a_2 = 28 - 10 = 18$$

Area of the shaded part is

18 square units