



**THIRD SPACE
LEARNING**

Area of a Rectangle Worksheet

Geometry

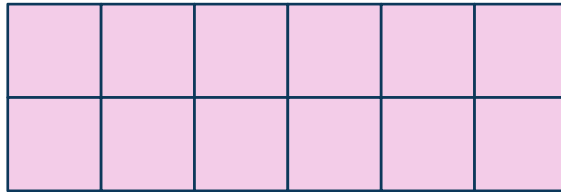
Grades 1 to 3

Skill Questions

Name:

Date:

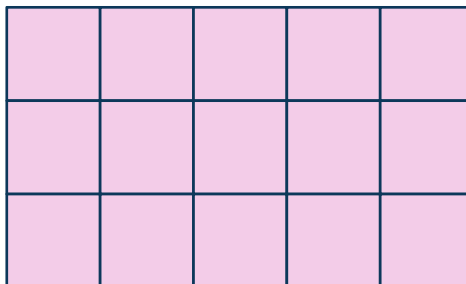
- 1 Calculate the area two different ways.



- a) Count the unit squares.
b) Multiply the side lengths.

Answer

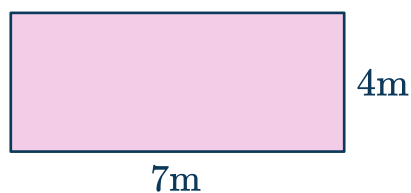
- 2 Calculate the area two different ways.



- a) Count the unit squares.
b) Multiply the side lengths.

Answer

- 3 Find the area of the rectangle.



Answer

Area of a Rectangle Worksheet | Grades 1 to 3

- 4 Circle the rectangle with the largest area.

1cm



8cm

3cm



3cm

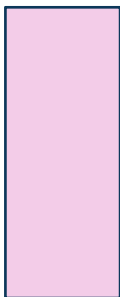
5cm



2cm

-
- 5 Circle the rectangle with the smallest area.

3m



7m

4m



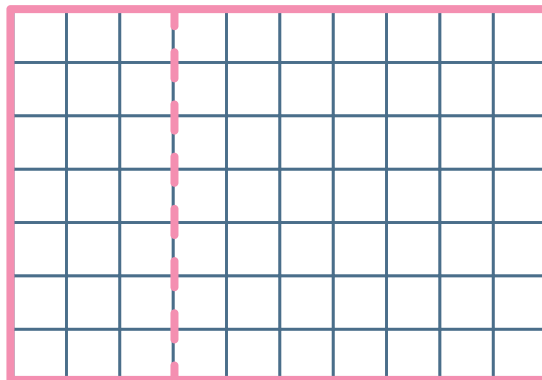
5cm

2m



9m

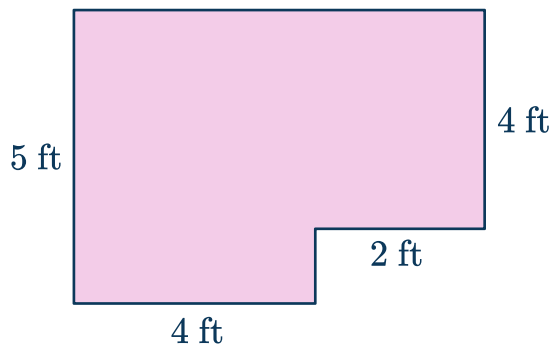
-
- 6 Write an equation to represent the total area as the area of two rectangles.



$$10 \times 7 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

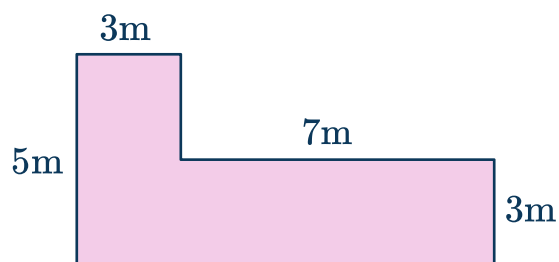
Area of a Rectangle Worksheet | Grades 1 to 3

- 7 Split the figure into two rectangles. Then calculate the area.



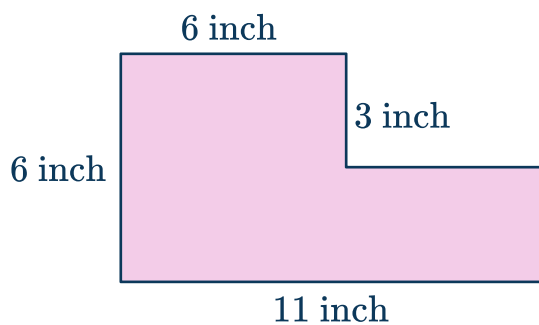
Answer

- 8 Split the figure into two rectangles. Then calculate the area.



Answer

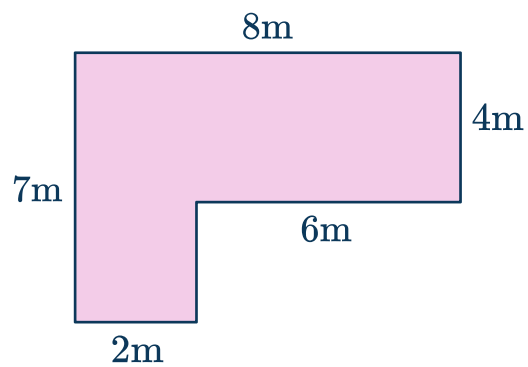
- 9 Calculate the area of the figure.



Answer

Area of a Rectangle Worksheet | Grades 1 to 3

- 10 Write an equation to represent the total area as the area of two rectangles.



$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

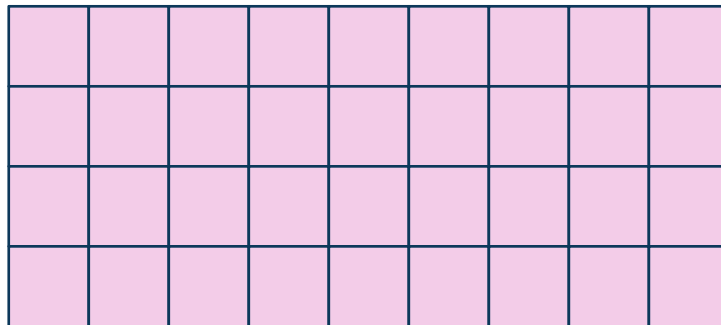
Applied Questions

- 11 Draw two different rectangles that have an area of 24 square units.

Answer



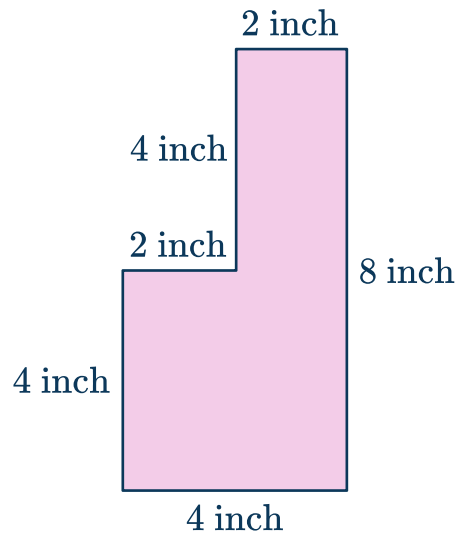
- 12 A group of students found the area for the rectangle below.



- Leila says “I solved 2×9 and then doubled it.”
- Bart says “I calculated 3×4 and then added that three times.”
- Jamal says “I multiplied 4 and 9 and that was it.”

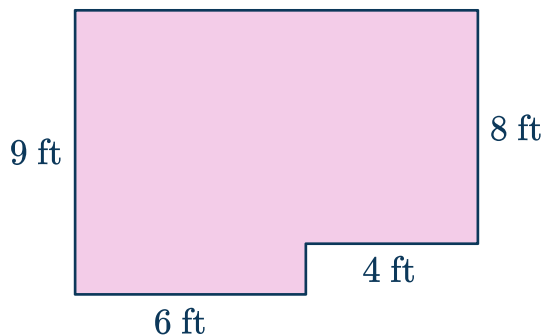
Decide if each student’s strategy is correct. Explain.

- 13 Show two different ways to solve for the total area.



Answer

- 14

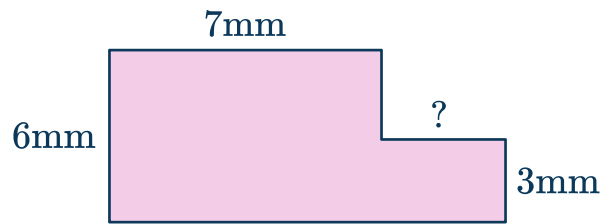


To solve for the total area of the figure above, Freya writes $8 \times 10 + 6 \times 4$.

Is Freya correct? Why or why not?

Answer

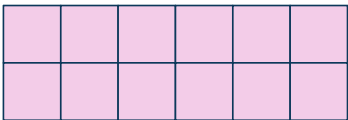
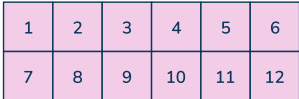
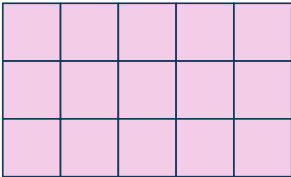
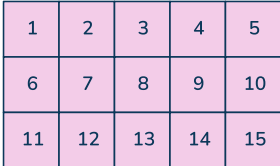

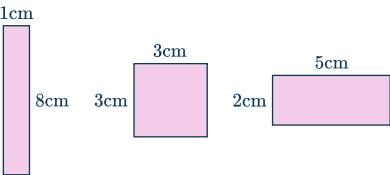

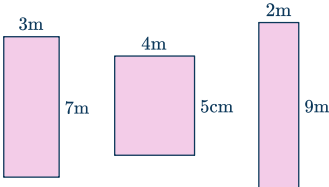

- 15 The area of the figure is 54 mm^2 .



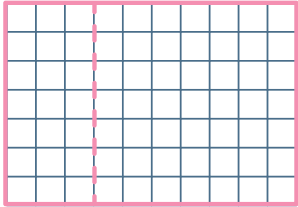
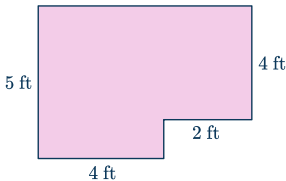
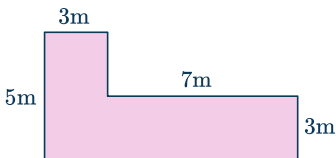
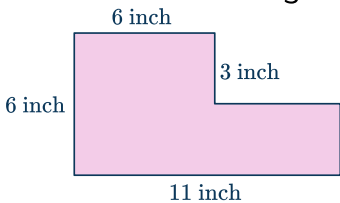
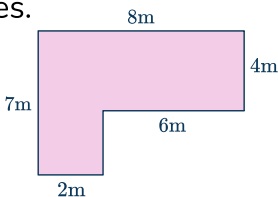
What is the length of the missing side?

Answer

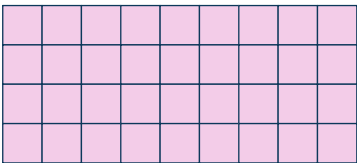
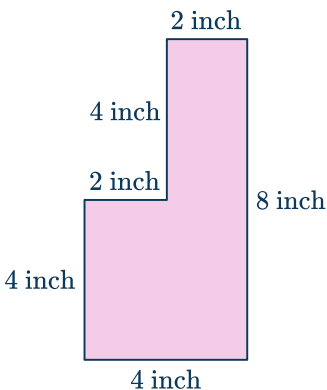
Answers

| Question number | Question | Answers | Standard |
|-----------------|--|---|----------|
| 1 | Calculate the area two different ways.  <p>a) Count the unit squares. b) Multiply the side lengths.</p> | a)  b) $2 \times 6 = 12$ square units | 3.MD.7a |
| 2 | Calculate the area two different ways.  <p>a) Count the unit squares. b) Multiply the side lengths.</p> | a)  b) $3 \times 5 = 15$ square units | 3.MD.7a |
| 3 | Find the area of the rectangle.  | 28 square meters | 3.MD.7b |
| 4 | Circle the rectangle with the largest area.  |  | 3.MD.7b |
| 5 | Circle the rectangle with the smallest area.  |  | 3.MD.7b |

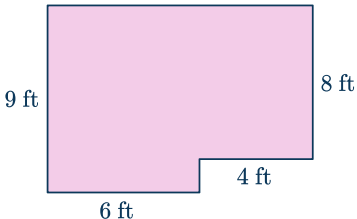
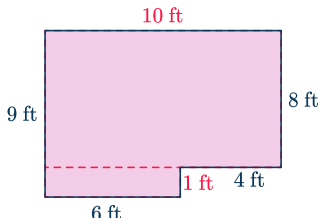
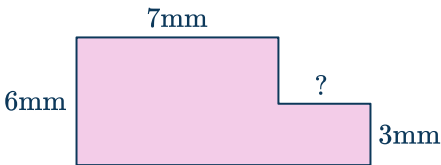
Area of a Rectangle Worksheet | Grades 1 to 3 | Answers

| Question number | Question | Answers | Standard |
|-----------------|--|--|-----------|
| 6 | <p>Write an equation to represent the total area as the area of two rectangles.</p>  <p>$10 \times 7 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$</p> | $10 \times 7 = 3 \times 7 + 7 \times 7$ | 3.MD.C.7c |
| 7 | <p>Split the figure into two rectangles. Then calculate the area.</p>  | $28ft^2$ | 3.MD.C.7d |
| 8 | <p>Split the figure into two rectangles. Then calculate the area.</p>  | $36m^2$ | 3.MD.C.7d |
| 9 | <p>Calculate the area of the figure.</p>  | $51inch^2$ | 3.MD.C.7d |
| 10 | <p>Write an equation to represent the total area as the area of two rectangles.</p>  <p>$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$</p> | $3 \times 2 + 8 \times 4 = 38m^2$ OR $7 \times 2 + 6 \times 4 = 38m^2$ | 3.MD.C.7d |

Area of a Rectangle Worksheet | Grades 1 to 3 | Answers

| Question number | Question | Answers | Standard |
|-----------------|--|---|--------------------|
| 11 | Draw two different rectangles that have an area of 24 square units. | Any two rectangles below: 1×24 , 2×12 , 3×8 , 6×4 | 3.MD.7a 3.MD.7b |
| 12 | <p>A group of students found the area for the rectangle below.</p>  <ul style="list-style-type: none"> Leila says "I solved 2×9 and then doubled it." Bart says "I calculated 3×4 and then added that three times." Jamal says "I multiplied 4 and 9 and that was it." <p>Decide if each student's strategy is correct. Explain.</p> | <p><i>Explanations will vary.</i></p> <p>Example response: All three students are correct. Leila took the 4 by 9 rectangle and made it two groups of 2×9. Bart made it three groups of 3×4. Both will add up to be 4×9, which is the area of the total rectangle.</p> | 3.MD.7c |
| 13 | <p>Show two different ways to solve for the total area.</p>  | $2 \times 4 + 4 \times 4 = 24inch^2$ OR $2 \times 4 + 2 \times 8 = 24inch^2$ OR $4 \times 8 - 2 \times 4 = 24inch^2$ | 3.MD.C.7.d |

Area of a Rectangle Worksheet | Grades 1 to 3 | Answers




| Question number | Question | Answers | Standard |
|-----------------|--|--|------------|
| 14 |  <p>To solve for the total area of the figure above, Freya writes $8 \times 10 + 6 \times 4$.</p> <p>Is Freya correct? Why or why not?</p> | <p><i>Explanations will vary.</i></p> <p>Example Answer:</p>  <p>Freya is wrong. The top side is the same as the 6 ft and 4 ft parts put together. That makes 8×10. But Freya gets the bottom rectangle wrong. It has a width of 1 ft, because $8 + 1 = 9$. So the bottom rectangle is 1×6 and you add both to find the area of the whole figure.</p> | 3.MD.C.7.d |
| 15 | <p>The area of the figure is 54 mm^2.</p>  <p>What is the length of the missing side?</p> | $6 \times 7 = 42$ $54 - 42 = 12$ $12 \div 3 = 4$ <p>4 mm</p> | 3.MD.C.7.d |

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