



**THIRD SPACE
LEARNING**

Area of a Rectangle Worksheet

Geometry

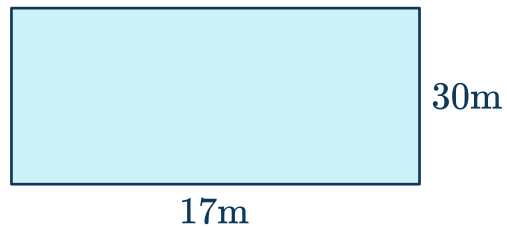
Grades 4 to 5

Skill Questions

Name:

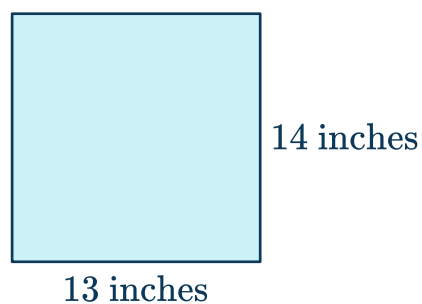
Date:

- 1 Find the area of the rectangle.



Answer

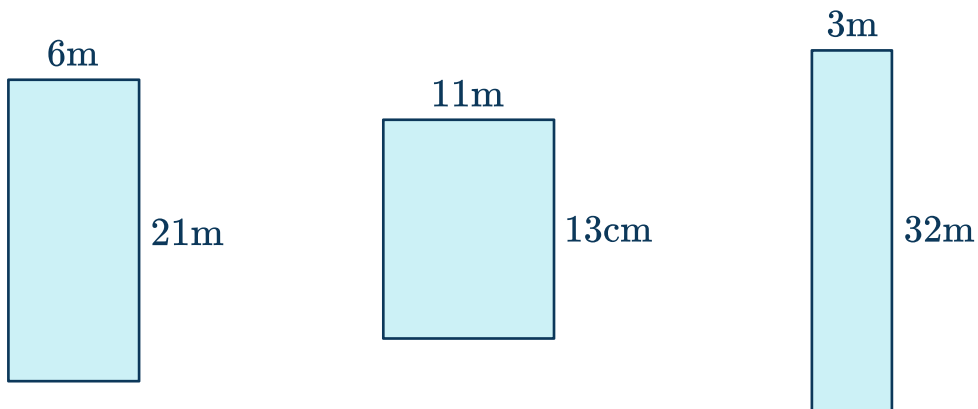
- 2 Find the area of the rectangle.



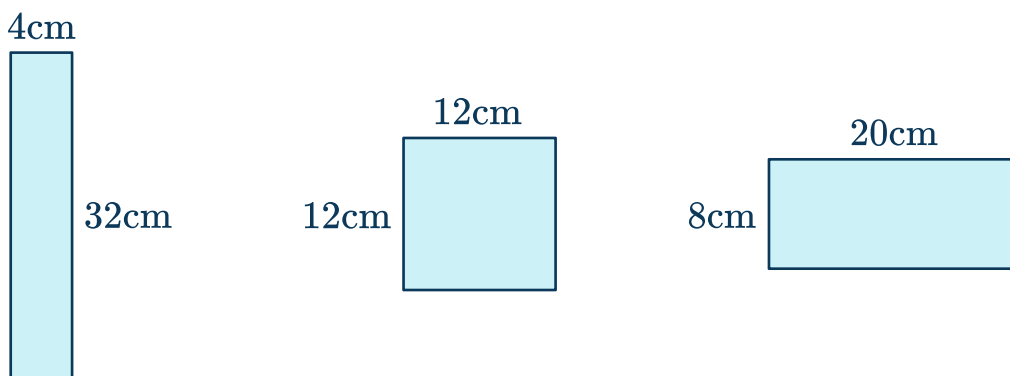
Answer

Area of a Rectangle Worksheet | Grades 4 to 5

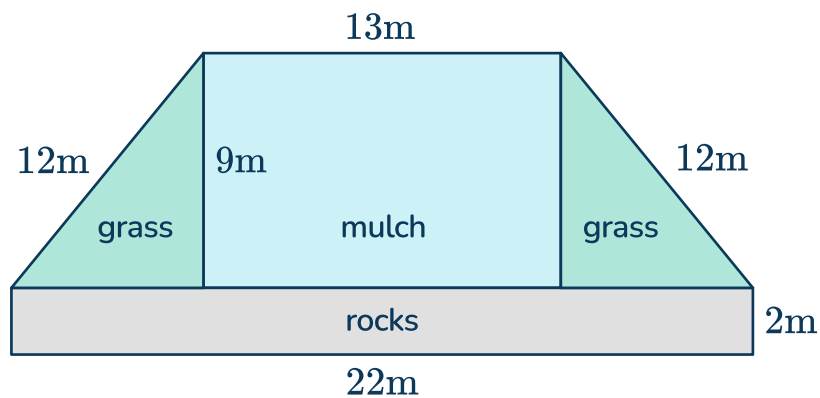
3 Circle the rectangle with the smallest area.



4 Circle the rectangle with the largest area.



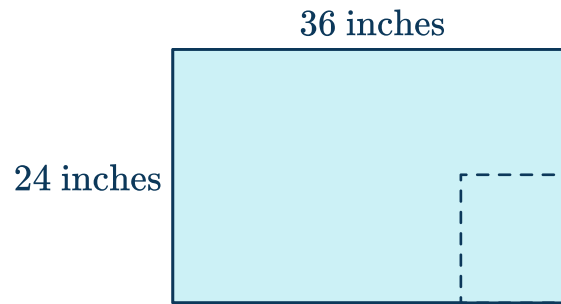
5 The layout of a playground is shown below.



What is the area of the playground that needs mulch?

Answer

6



Josie has a large poster board. If Josie cuts out a rectangle that is 12 inches by 7 inches, how much of the poster board is left, in inches²?

Answer

- 7 A driveway has a length of 27 *ft* and a width of 8 *ft*. If the length is extended by 9 *ft*, what is the new area of the driveway?

Answer

- 8 The hardware store has rectangular tarps for sale. The small tarp is 10 *ft* by 25 *ft*. The large tarp is 30 *ft* by 50 *ft*. How much larger, in *ft*², is the large tarp?

Answer

Area of a Rectangle Worksheet | Grades 4 to 5

- 9 A rectangular classroom is getting 320 ft^2 of new carpet. The room is 16 ft wide. What is the length of the room?

Answer



- 10 A garden has 3 ft by 45 ft rectangular rows. If there are 6 rows, what is the total area of the garden?

Answer



Applied Questions

- 11 Draw three different rectangles that have an area of 450 m^2 .

Answer



- 12 A pool has a length of 45 ft and a width of 24 ft . It is surrounded by a 24 inch wide sidewalk. What is the total area of the pool deck (the pool and the sidewalk combined)?

Answer



- 13 Order the rectangles from least to greatest area.
- A. Length: 12 mm , Width: 34 mm
 - B. Length: 3 cm , Width: 5 cm
 - C. Length: 11 mm , Width: 35 mm
 - D. Length: 4 cm , Width: 4 cm

Answer

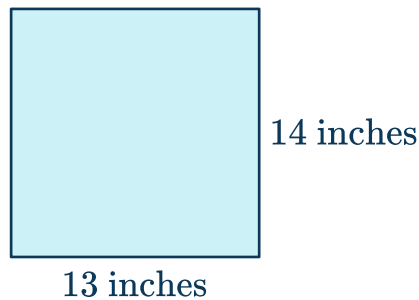


- 14** Roy is making a border for his rectangular flower garden out of wooden logs. He has 50 *m* of wooden logs. What are the dimensions of the garden with the maximum area?

Answer




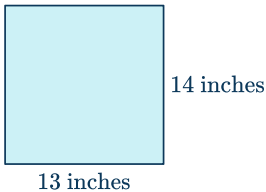
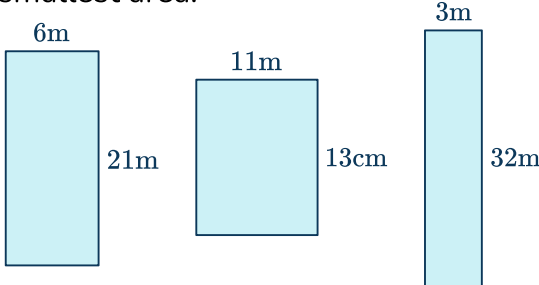
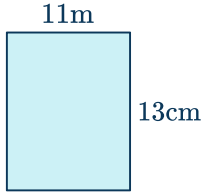
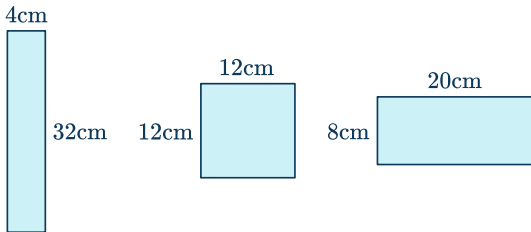
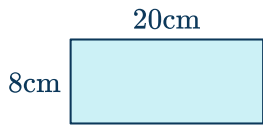
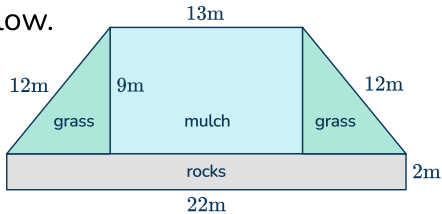
- 15** A group of students found the area for the rectangle below.



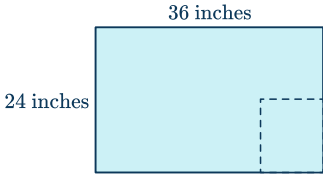
- Ezra says “I solved 10×3 and 10×4 and then added them.”
- Luca says “I calculated 13×4 and then 13×10 and their sum is the area.”
- JT says “I know 13×13 is 169, so I just added 13 more.”

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

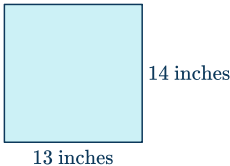
Answers

Question number	Question	Answers	Standard
1	Find the area of the rectangle. 	510 m^2	4.MD.A.3
2	Find the area of the rectangle. 	182 inches^2	4.MD.A.3
3	Circle the rectangle with the smallest area. 		4.MD.A.3
4	Circle the rectangle with the largest area. 		4.MD.A.3
5	The layout of a playground is shown below.  What is the area of the playground that needs mulch?	117 m^2	4.MD.A.3

Area of a Rectangle Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
6	 <p>Josie has a large poster board. If Josie cuts out a rectangle that is 12 inches by 7 inches, how much of the poster board is left, in $inches^2$?</p>	$780\ inches^2$	4.MD.A.3
7	A driveway has a length of $27\ ft$ and a width of $8\ ft$. If the length is extended by $9\ ft$, what is the new area of the driveway?	$288\ ft^2$	4.MD.A.3
8	The hardware store has rectangular tarps for sale. The small tarp is $10\ ft$ by $25\ ft$. The large tarp is $30\ ft$ by $50\ ft$. How much larger, in ft^2 , is the large tarp?	$1,250\ ft^2$	4.MD.A.3
9	A rectangular classroom is getting $320\ ft^2$ of new carpet. The room is $16\ ft$ wide. What is the length of the room?	$20\ ft$	4.MD.A.3
10	A garden has $3\ ft$ by $45\ ft$ rectangular rows. If there are 6 rows, what is the total area of the garden?	$810\ ft^2$	4.MD.A.3
11	Draw three different rectangles that have an area of $450\ m^2$.	Any three rectangles below: 1×450 , 2×225 , 3×150 , 5×90 , 6×75 , 9×50 , 10×45 , 15×30 , 18×25	4.MD.A.3

Area of a Rectangle Worksheet | Grades 4 to 5 | Answers




Question number	Question	Answers	Standard
12	A pool has a length of 45 ft and a width of 24 ft . It is surrounded by a 24 inch wide sidewalk. What is the total area of the pool deck (the pool and the sidewalk combined)?	$1,372\text{ ft}^2$	4.MD.A.3
13	Order the rectangles from least to greatest area. A. Length: 12 mm , Width: 34 mm B. Length: 3 cm , Width: 5 cm C. Length: 11 mm , Width: 35 mm D. Length: 4 cm , Width: 4 cm	A: $408\text{ mm}^2 = 4.08\text{ cm}^2$ B: 15 cm^2 C: $385\text{ mm}^2 = 3.85\text{ cm}^2$ D: 16 cm^2 Correct order: C, A, B, D	4.MD.A.3
14	Roy is making a border for his rectangular flower garden out of wooden logs. He has 50 m of wooden logs. What are the dimensions of the garden with the maximum area?	12 m by 13 m (Accept 12.5 m by 12.5 m)	4.MD.A.3
15	<p>A group of students found the area for the rectangle below.</p> <div style="text-align: center;">  <p>13 inches 14 inches</p> </div> <ul style="list-style-type: none"> Ezra says “I solved 10×3 and 10×4 and then added them.” Luca says “I calculated 13×4 and then 13×10 and their sum is the area.” JT says “I know 13×13 is 169, so I just added 13 more.” <p>Decide if each student’s strategy is correct. Explain.</p>	<p><i>Explanations will vary.</i></p> <p>Example response: Ezra is not correct, because that is only part of the whole area. Luca is correct, because you can break 14 up into $10 + 4$ and then multiply 13 by both parts. JT is also correct because 13×14 is one more group than 13×13.</p>	4.MD.A.3

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