



**THIRD SPACE
LEARNING**

Area of a parallelogram Worksheet

Geometry

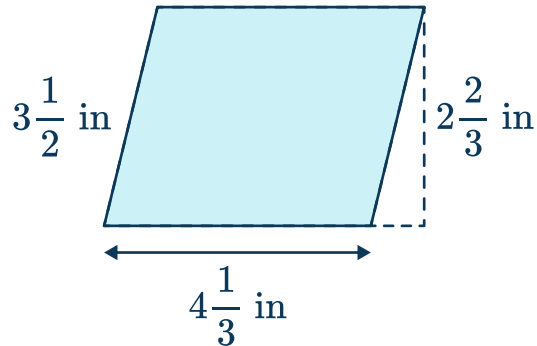
Grades 5 to 6

Skill Questions

Name:

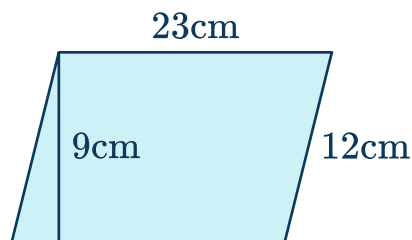
Date:

- 1 Find the area of the parallelogram.



Answer

- 2 Write an equation that represents the area of the parallelogram.



Answer

- 3 Using the equation you created in #2, calculate the area of the parallelogram.

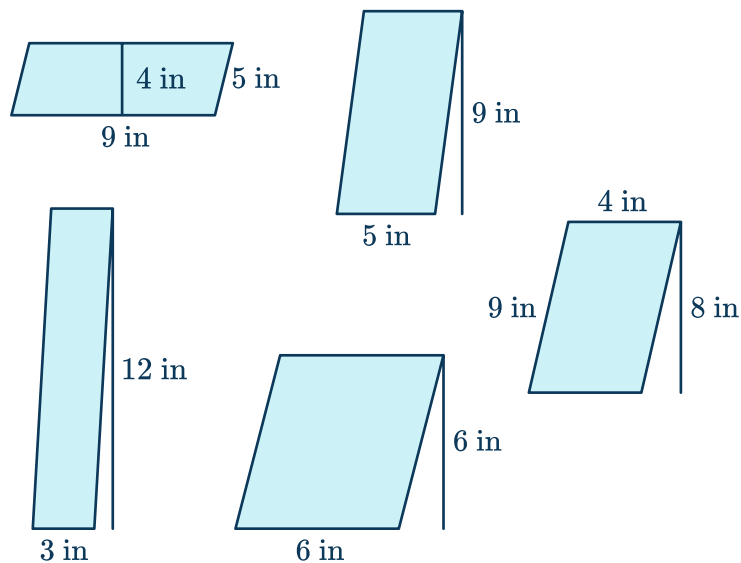
Answer

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- 4 If a rectangle and a parallelogram have the same base lengths and the same heights, will the areas be the same?

Answer

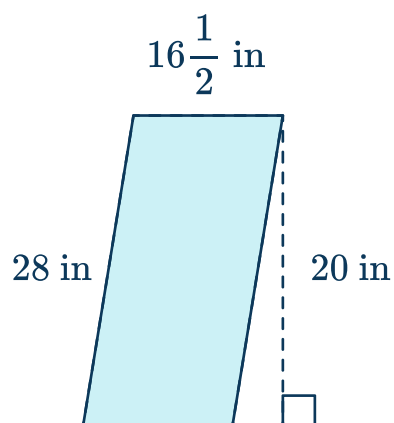
- 5 Circle the parallelograms with the same areas.



- 6 If the area of a parallelogram is 56 cm^2 and the height of the parallelogram is 7 cm , find the base length of the parallelogram.

Answer

- 7 Find the area of the parallelogram.



Answer

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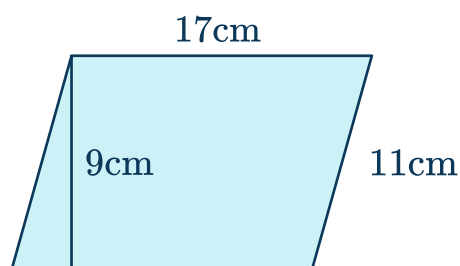
- 8 The area of the parallelogram is $168\frac{2}{5} \text{ cm}^2$ and the height of the parallelogram is 14 cm . Find the base of the parallelogram.

Answer

- 9 If the length of the base of a parallelogram is 34 inches and the height of the parallelogram is 5 inches, what is the area of the parallelogram?

Answer

- 10 Find the area of the parallelogram.



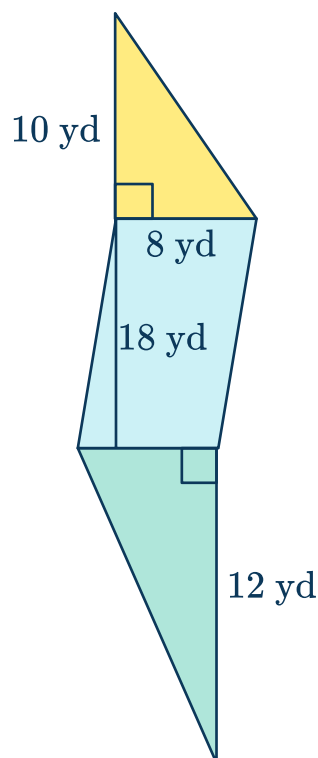
Answer

Applied Questions

- 11 Draw two different parallelograms that have the same area.

Answer

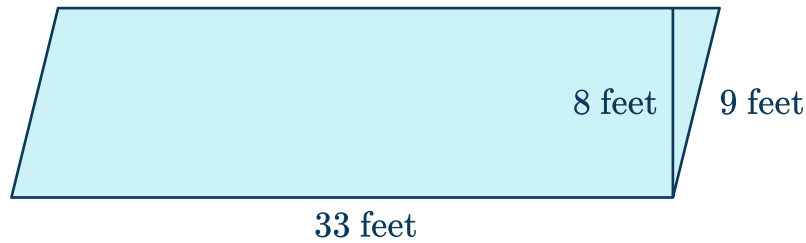
- 12 Lillian is a designer. She created the design below but needs to know how much material she needs to buy to cover it. If the material is \$0.42 per square yard, how much money will she spend to cover the design she made?



Answer

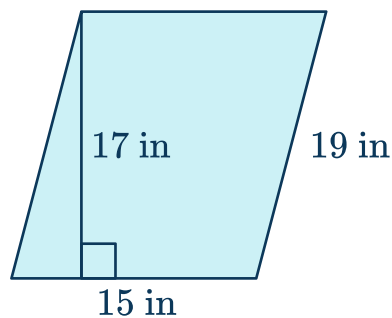
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- 13** Martin made a parallelogram shaped garden. Find the perimeter and the area of the garden.



Answer

- 14** Julie and Andrew both have to find the area of the parallelogram below.



Julie found the area by doing the following:

$$\text{Area} = 17 \times 15$$

$$\text{Area} = 255 \text{ in}^2$$

Andrew found the area by doing the following:

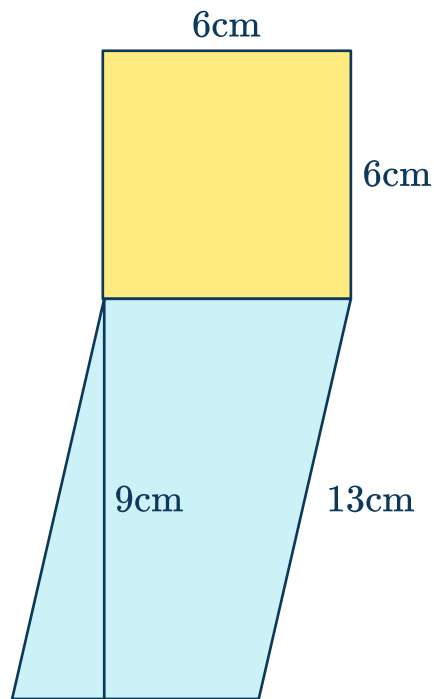
$$\text{Area} = 19 \times 15$$

$$\text{Area} = 285 \text{ in}^2$$

Who solved for the area correctly?

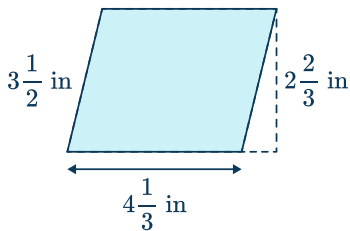
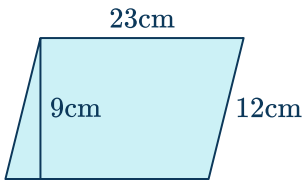
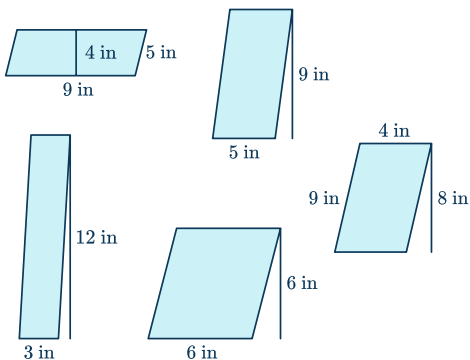
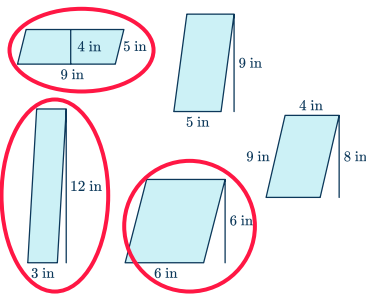
Answer

- 15 Find the total area of the figure below.

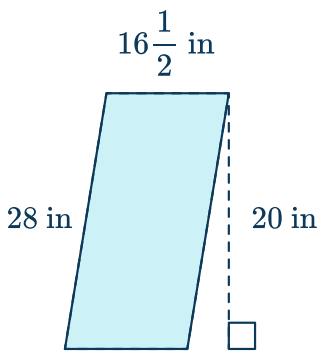
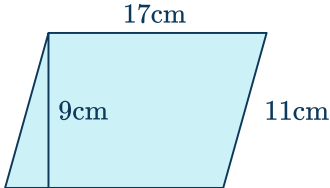


Answer

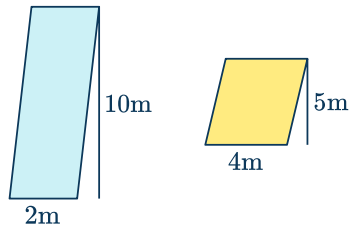
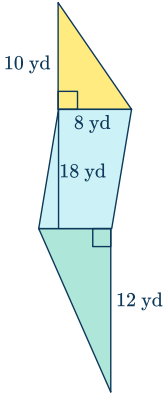
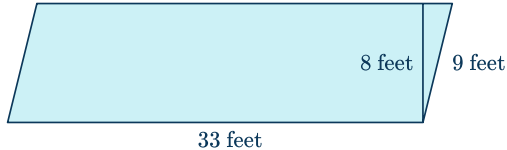
Answers

Question number	Question	Answers	Standard
1	Find the area of the parallelogram. 	Area = base \times perpendicular height $\text{Area} = 4\frac{1}{3} \times 2\frac{2}{3}$ $\text{Area} = \frac{13}{3} \times \frac{8}{3}$ $\text{Area} = \frac{104}{9} = 11\frac{5}{9} \text{ in}^2$	5.NF.B.4b 6.G.A.1
2	Write an equation that represents the area of the parallelogram. 	Area = 23×9	6.G.A.1
3	Using the equation you created in #2, calculate the area of the parallelogram.	Area = 23×9 Area = 207 cm^2	6.G.A.1
4	If a rectangle and a parallelogram have the same base lengths and the same heights, will the areas be the same?	Yes, their areas will be the same.	5.NF.B.4b 6.G.A.1
5	Circle the parallelograms with the same areas. 		6.G.A.1

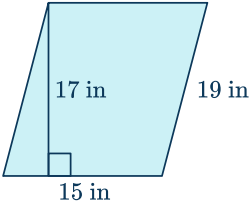
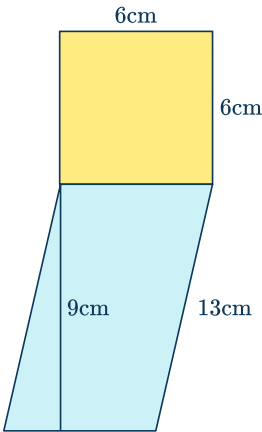
Area of a parallelogram Worksheet | Grades 5 to 6 | Answers

Question number	Question	Answers	Standard
6	If the area of a parallelogram is 56 cm^2 and the height of the parallelogram is 7 cm , find the base length of the parallelogram.	$56 \div 7 = 8 \text{ cm}$	6.G.A.1
7	Find the area of the parallelogram. 	Area = base \times perpendicular height $\text{Area} = 16\frac{1}{2} \times 20$ $\text{Area} = \frac{33}{2} \times \frac{20}{1}$ $\text{Area} = \frac{660}{2} = 330$ $\text{Area} = 330 \text{ in}^2$	5.NF.B.4b 6.G.A.1
8	The area of the parallelogram is $168\frac{2}{5} \text{ cm}^2$ and the height of the parallelogram is 14 cm . Find the base of the parallelogram.	$168\frac{2}{5} \div 14 =$ $\frac{842}{5} \div 14$ $\frac{842}{5} \times \frac{1}{14} = \frac{842}{70} = 12\frac{1}{35} \text{ cm}$ The base length is $12\frac{1}{35} \text{ cm}$.	6.G.A.1
9	If the length of the base of a parallelogram is 34 inches and the height of the parallelogram is 5 inches, what is the area of the parallelogram?	Area = 5×34 Area = 170 in^2	6.G.A.1
10	Find the area of the parallelogram. 	Area = base \times perpendicular height Area = 17×9 Area = 153 153 cm^2	6.G.A.1

Area of a parallelogram Worksheet | Grades 5 to 6 | Answers

Question number	Question	Answers	Standard
11	Draw two different parallelograms that have the same area.	<p>Answers may vary:</p>  <p>Both have an area of $20 m^2$.</p>	6.G.A.1
12	<p>Lillian is a designer. She created the design below but needs to know how much material to she needs to buy to cover it. If the material is \$0.42 per square yard, how much money will she spend to cover the design she made?</p> 	<p>Area of top triangle: $A = \frac{1}{2} \times 8 \times 10$ $A = 40 yd^2$</p> <p>Area of parallelogram: $A = b \times h$ $A = 8 \times 18$ $A = 144 yd^2$</p> <p>Area of bottom triangle: $A = \frac{1}{2} \times 12 \times 8$</p> <p>Total area = $40 + 144 + 48 = 232 yd^2$</p> <p>$232 \times 0.42 = \\$97.44$</p>	6.G.A.1
13	<p>Martin made a parallelogram shaped garden. Find the perimeter and the area of the garden.</p> 	<p>Perimeter = $9 + 9 + 33 + 33$ Perimeter = 84 feet</p> <p>Area = 83×3 Area = $264 ft^2$</p>	6.G.A.1

Area of a parallelogram Worksheet | Grades 5 to 6 | Answers




Question number	Question	Answers	Standard
14	<p>Julie and Andrew both have to find the area of the parallelogram below.</p>  <p>Julie found the area by doing the following: $\text{Area} = 17 \times 15$ $\text{Area} = 255 \text{ in}^2$</p> <p>Andrew found the area by doing the following: $\text{Area} = 19 \times 15$ $\text{Area} = 285 \text{ in}^2$</p> <p>Who solved for the area correctly?</p>	<p>Julie found the area by using the correct dimensions. To find the area of a parallelogram, multiply the base length by the height (the height is perpendicular to the base). In this case, the base is 15 in and the height is 17 in.</p> <p>$\text{Area} = 15 \times 17$ $\text{Area} = 255 \text{ in}^2$</p> <p>19 is the side length of the parallelogram not the height length.</p>	6.G.A.1
15	<p>Find the total area of the figure below.</p> 	<p>Total area = area of square + area of parallelogram</p> <p>$\text{Area} = (6)(6) + (6)(9)$ $\text{Area} = 36 + 54$ $\text{Area} = 90 \text{ cm}^2$</p>	Standard included

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