



**THIRD SPACE
LEARNING**

Area of Composite Shapes Worksheet

Geometry

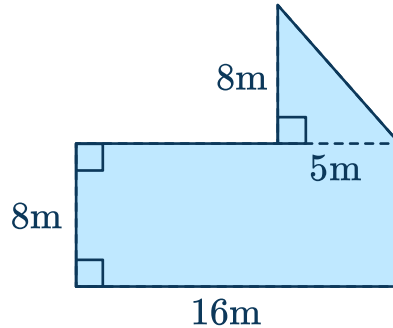
Grades 6 to 8

Skill Questions

Name:

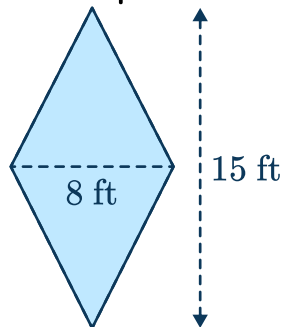
Date:

- 1 Find the area of the composite figure.



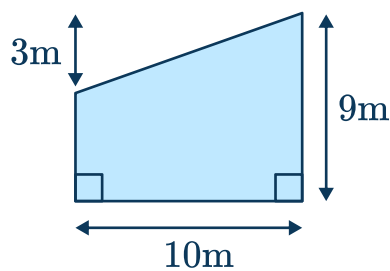
Answer

- 2 Find the area of the composite shape below.



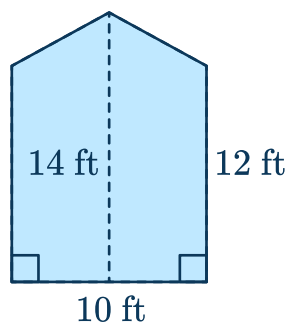
Answer

- 3 Find the area of the composite shape below.



Answer

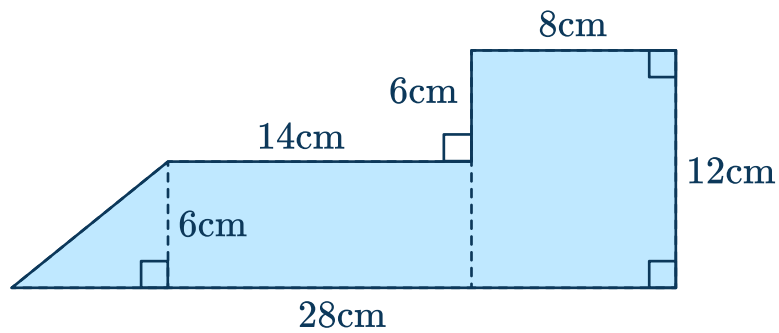
- 4 Find the area of the composite shape below.



Answer

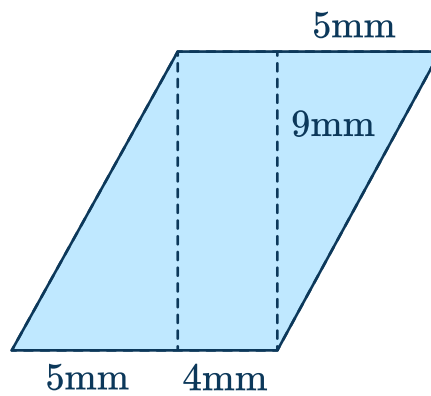
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- 5 Find the area of the composite shape below.



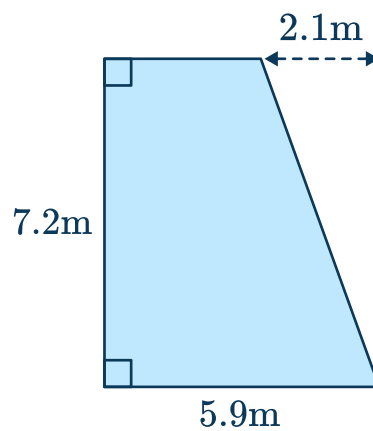
Answer

- 6 Find the area of the composite shape below.



Answer

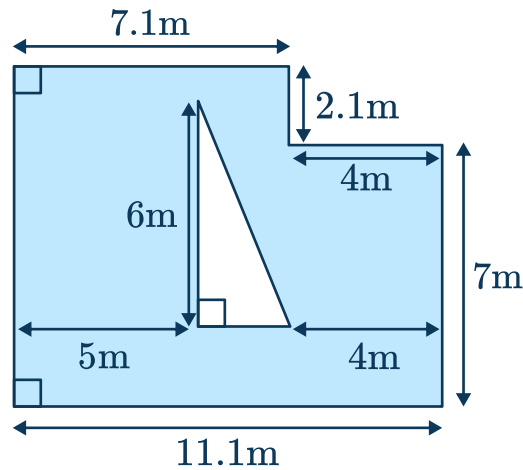
- 7 Find the area of the composite shape below.



Answer

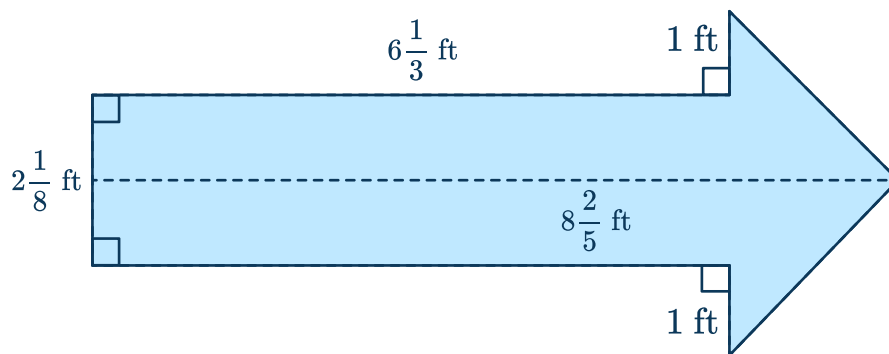
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- 8 Find the area of the composite shape below.



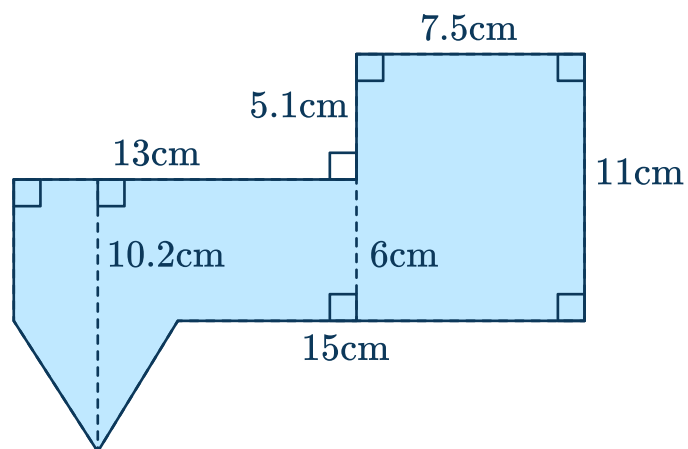
Answer

- 9 Find the area of the composite shape below.



Answer

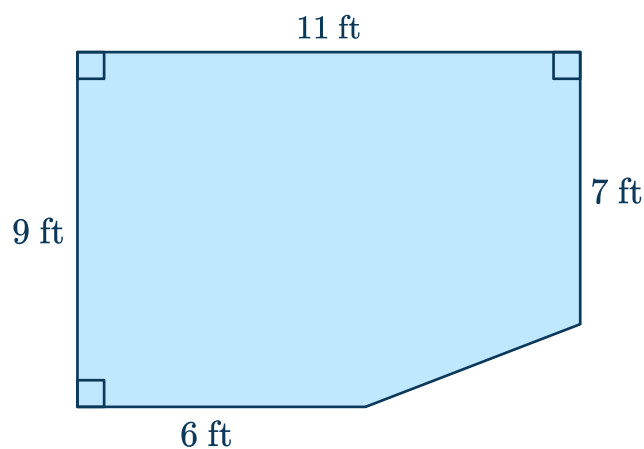
- 10 Find the area of the composite shape below.



Answer

Applied Questions

11

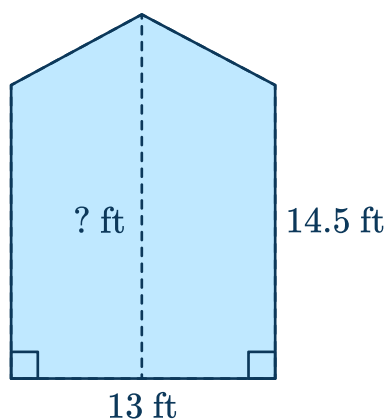


To solve for the total area of the figure above, Journey writes $9 \times 11 - 2 \times 5 \times \frac{1}{2}$.

Is Journey correct? Why or why not?

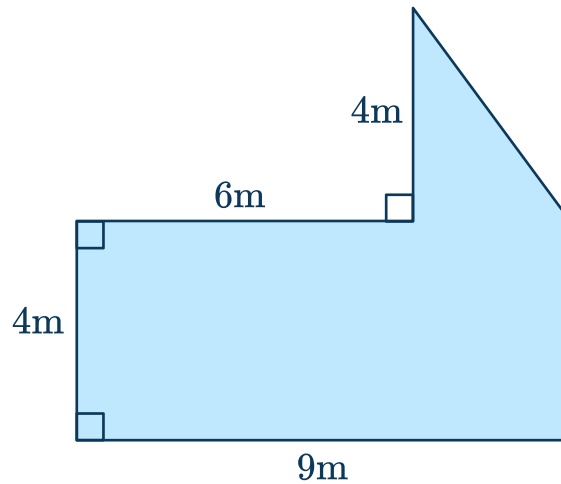
Answer

12 The area of the figure is 208 ft^2 . What is the missing dimension?



Answer

13



Zuri's work for the total area is shown below.

$$3 \times 4 = 12 \qquad 3 \times 4 = 12 \qquad 6 \times 4 = 24$$

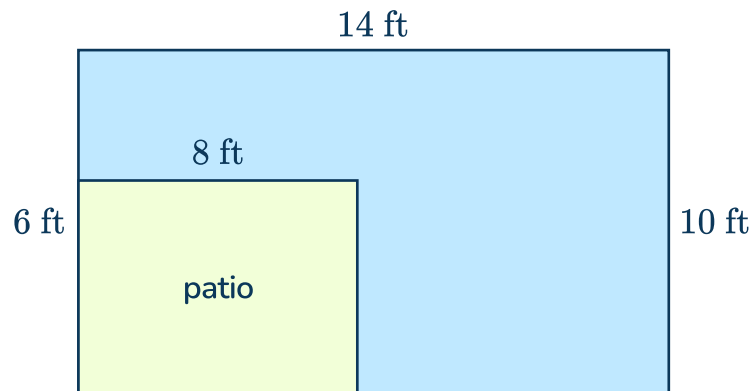
$$12 + 12 + 24 = 48 m^2$$

Explain how Zuri solved and correct any mistakes.

- 14 Emilio has a rectangular piece of paper that measures 8.5 inches by 11 inches. He cuts off a small triangle from the corner of the paper that has a height of 1.5 inches and a base of 2 inches. What is the area of the non cut paper left?

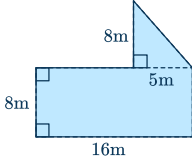
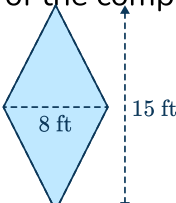
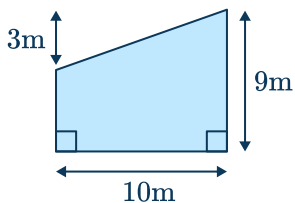
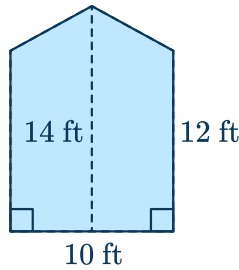
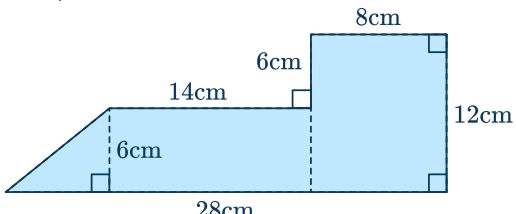
Answer

- 15 Abel is adding a triangular garden to his backyard. It will touch one side with the patio. The total area of the patio and garden will be 72 ft^2 .

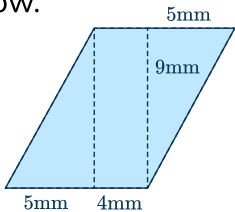
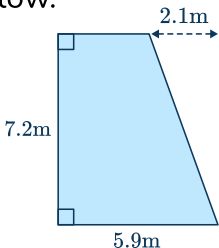
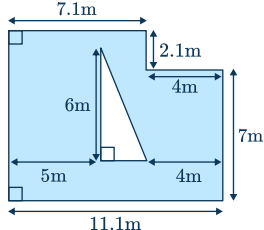
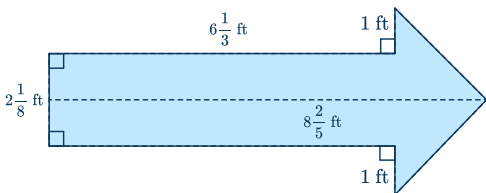
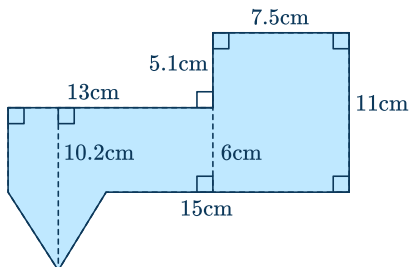


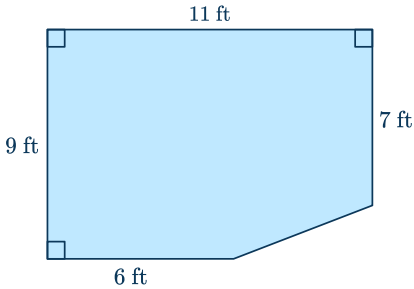
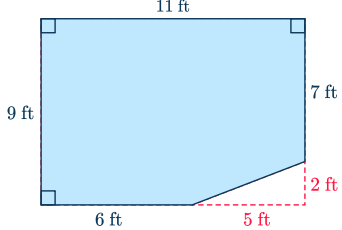
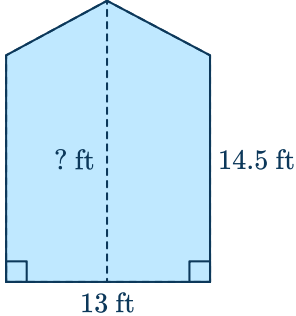
Draw a possible location of Abel's new garden. Label the base and the height.

Answers

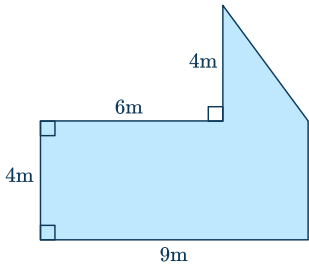
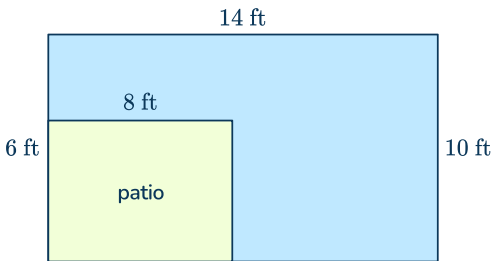
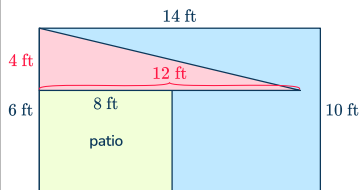
Question number	Question	Answers	Standard
1	Find the area of the composite figure. 	148 m^2	6.G.A.1
2	Find the area of the composite shape below. 	60 ft^2	6.G.A.1
3	Find the area of the composite shape below. 	75 m^2	6.G.A.1
4	Find the area of the composite shape below. 	130 ft^2	6.G.A.1
5	Find the area of the composite shape below. 	198 cm^2	6.G.A.1

Area of Composite Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
6	Find the area of the composite shape below. 	81 mm^2	6.G.A.1
7	Find the area of the composite shape below. 	34.92 m^2	6.G.A.1
8	Find the area of the composite shape below. 	86.31 m^2	6.G.A.1
9	Find the area of the composite shape below. 	$17 \frac{173}{240} \text{ ft}^2$	6.G.A.1
10	Find the area of the composite shape below. 	172.05 cm^2	6.G.A.1

Question number	Question	Answers	Standard
11	 <p>To solve for the total area of the figure above, Journey writes $9 \times 11 - 2 \times 5 \times \frac{1}{2}$.</p> <p>Is Journey correct? Why or why not?</p>	<p><i>Explanations will vary.</i></p> <p>Example Answer:</p>  <p>Yes. Since the opposite sides are equivalent, the base of the missing triangle at the bottom is 5 ft ($6 + 5 = 11$). Then the height of the missing triangle is 2 ft ($7 + 2 = 9$). The whole rectangle is 9×11, but the area of the triangle needs to be taken out.</p>	6.G.A.1
12	<p>The area of the figure is 208 ft^2. What is the missing dimension?</p> 	17.5 ft	6.G.A.1

Area of Composite Shapes Worksheet | Grades 6 to 8 | Answers




Question number	Question	Answers	Standard
13	 <p>Zuri's work for the total area is shown below.</p> $3 \times 4 = 12 \quad 3 \times 4 = 12 \quad 6 \times 4 = 24$ $12 + 12 + 24 = 48 \text{ m}^2$ <p>Explain how Zuri solved and correct any mistakes.</p>	<p><i>Explanations will vary.</i></p> <p>Example answer: Zuri broke the shape up into 3 parts, a rectangle that is 6 x 4, a rectangle that is 3 x 4 and a triangle with a base of 3 and a height of 4. Zuri forgot to multiply the area of the triangle by $\frac{1}{2}$, so the answer should be 42 m^2.</p>	6.G.A.1
14	Emilio has a rectangular piece of paper that measures 8.5 inches by 11 inches. He cuts off a small triangle from the corner of the paper that has a height of 1.5 inches and a base of 2 inches. What is the area of the non cut paper left?	92 <i>inches</i> ²	6.G.A.1
15	<p>Abel is adding a triangular garden to his backyard. It will touch one side with the patio. The total area of the patio and garden will be 72 ft^2.</p>  <p>Draw a possible location of Abel's new garden. Label the base and the height.</p>	<p><i>The triangle should have an area of 24 ft^2, but location and dimensions may vary.</i></p> <p>Example answer:</p> 	6.G.A.1

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