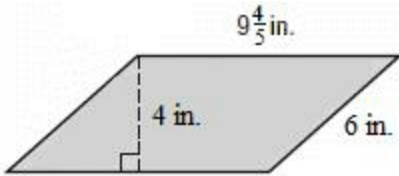


CH 9 STEAM REVIEW

Numeric Response

Enter the appropriate value to answer the question or solve the problem.

1. Find the area of the parallelogram.

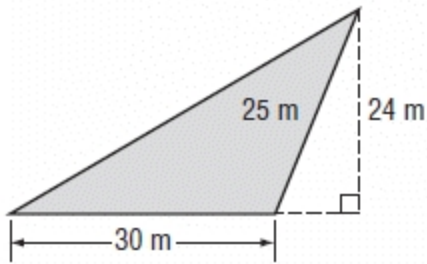


_____ in²

2. Find the base of a parallelogram with height 11.8 millimeters and an area of 151.04 square millimeters.

_____ mm

3. The play area in a local park has the dimensions shown at the right. What is the area of the park?



_____ m²

4. A triangular logo that is painted on the side of a building has a base length of 8 feet and a height of 4 yards. What is the area of the logo in square feet?

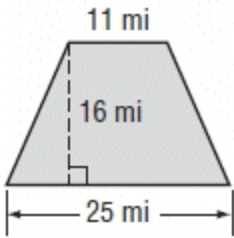
_____ ft²

5. A triangle has a base of 35 centimeters and an area of 819 square centimeters. What is the height of the triangle?

_____ cm

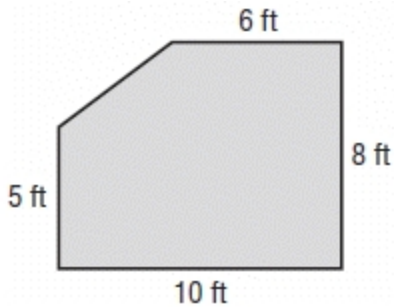
CH 9 STEAM REVIEW

6. The figure at the right shows the approximate dimensions of Clare County. What is the area of Clare County?



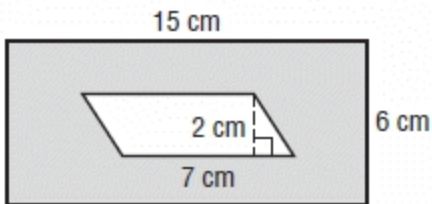
_____ mi²

7. The figure below shows the dimensions of the garden in Marissa's back yard. What is the area of the garden?



_____ ft²

8. What is the area of the shaded region in the figure at the right?



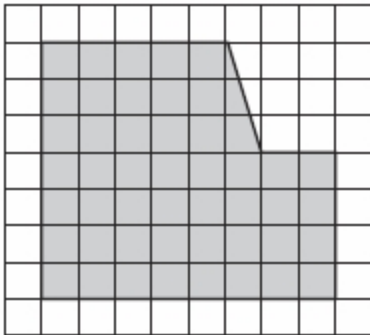
_____ cm²

9. Find the height of a trapezoid given that it has an area of 650 square feet and the lengths of its bases are 23 feet and 42 feet.

_____ ft

CH 9 STEAM REVIEW

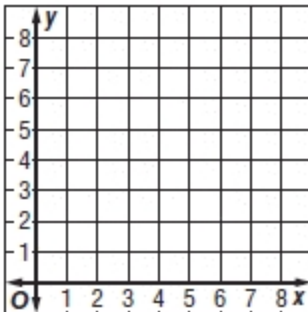
10. Find the area of the figure below in square units.



_____ units²

Subjective Short Answer

11. A parallelogram has an area of 100 square units. Its perimeter is between 40 and 60 units. List two possible dimensions for the parallelogram.
12. A figure has vertices at $A(1, 2)$, $B(2, 6)$, $C(4, 6)$, and $D(6, 2)$. Graph the figure and classify it. Then find the area.

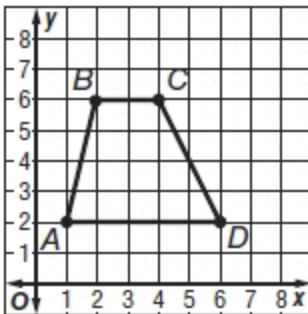


13. A rectangle has vertices $W(2, 3)$, $X(2, 6)$, $Y(7, 6)$, and $Z(7, 3)$. Describe how to find the side lengths of the rectangle without graphing.

CH 9 STEAM REVIEW

Answer Key

1. 39.2
2. 12.8
3. 360
4. 48
5. 46.8
6. 288
7. 74
8. 76
9. 20
10. 48.5
11. Sample answers: $b = 25$ units; $h = 4$ units; $b = 20$ units; $h = 5$ units
- 12.



trapezoid; 14 units^2

13. Sample answer: Subtract the y -coordinates to find the lengths of the vertical sides and subtract the x -coordinates to find the lengths of the horizontal sides.