

Name _____

8-8B Lesson Master

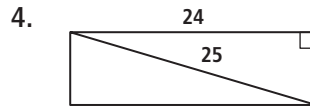
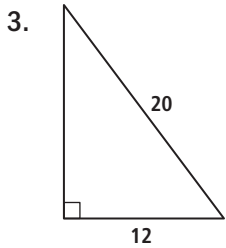
Questions on SPUR Objectives
See pages 521–523 for objectives.

REPRESENTATIONS Objectives I and J

1. A square has a diagonal with a length of 12 centimeters.
 - a. Find the length of a side of the square. _____
 - b. Find the area of the square. _____

2. The screen of a projection TV is 41.5 inches long and 28 inches tall. The length of the diagonal of the screen represents the size of the television. What is the size of the television? _____

In 3 and 4, find the area of the figure.



In 5 and 6, find the exact length of a side of the cube.

5. A cube with volume 1,728 cubic inches

6. A cube with volume 648 cubic inches

7. What is the volume of a cube with a side length of 8 inches? _____

8. What is the volume of a cube with a side whose diagonal measures $5\sqrt{2}$ inches? _____

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In 9–13, find the distance between the given points. Give the exact simplified value.

9. $(2, 6)$ and $(7, 1)$

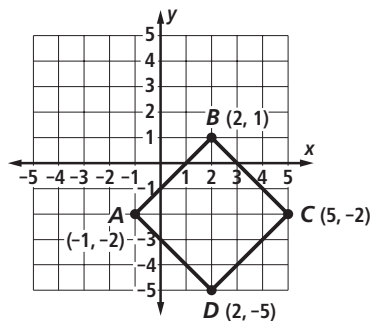
10. $(5, -7)$ and $(8, 2)$

11. $(10, -12)$ and $(9, -14)$

12. $(-7, -8)$ and $(1, 2)$

13. $(-9, -9)$ and $(-11, 5)$

14. Use the graph at the right to complete the following.

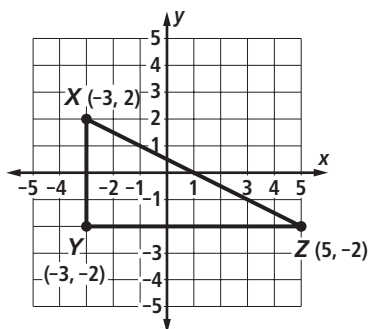


a. What is the exact value of the distance between A and B ?

b. What is the exact value of the distance between C and D ?

c. What is the exact value of the perimeter of the rectangle?

15. Use the graph below to complete the following.



a. What is the exact value of the distance between X and Z ?

b. What is the exact value of the area of $\triangle XYZ$?
