

Name: _____ Date: _____ Class: _____

GRADE: _____

UNIT 6: SIMILAR FIGURES (PART 2)

Number of questions missed	1	2	3	4	5	6	7	8	9	10
Homework Score	90	80	70	60	50	40	30	20	10	0

Answer each question and round your answer to the nearest whole number.

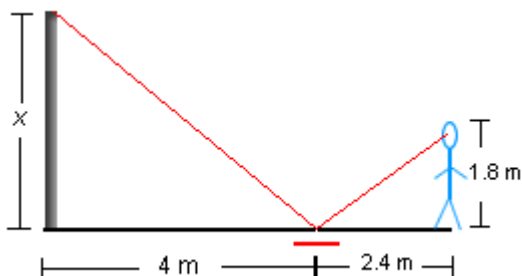
① A man that is 6 ft tall casts a shadow that is 3 ft long. Find the height of a cardboard box that casts a 2 ft shadow.

② A baby elephant that is 4 ft tall casts a shadow that is 8 ft long. Find the height of an adult elephant that casts a 12 ft shadow.

④ An 16 ft tall adult giraffe standing next to a baby giraffe casts an 8 ft shadow. If the baby giraffe is 6 ft tall then how long is its shadow?

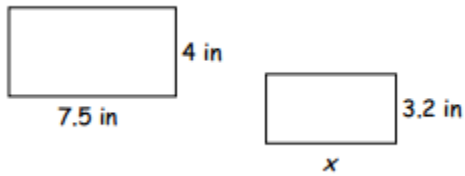
④ A particular house is 12 m wide. A model of it was built with a scale of 4 cm : 2 m. How wide is the model?

⑤ You are standing next to a statue. Use the information below to determine the unknown height of the statue.

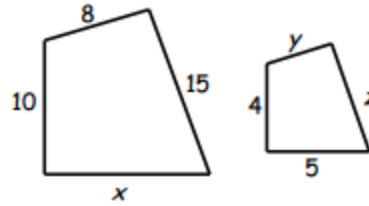


Find the value for **each** variable in the similar figures.

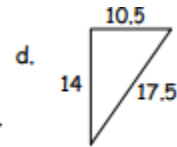
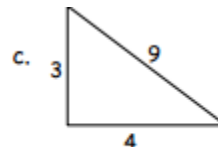
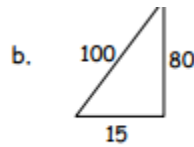
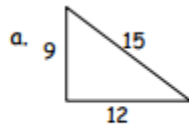
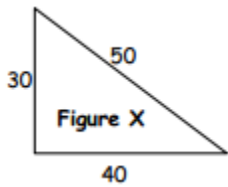
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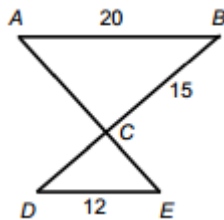
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8 Which of the following figures are similar to Figure X? (There may be more than one). Justify how you know.



9 In the diagram below, \overline{AB} is parallel to \overline{DE} . $AB = 20$ inches, $DE = 12$ inches, and $BC = 15$ inches. What is the length of \overline{DC} ?



10 The sail shown below has a horizontal stripe parallel to the base of the sail. What is the distance, x , from the bottom of the sail to the stripe?

