Date: ____

Chapter 4 Test

For #1 to #4, circle the best answer.

- Jason arranged shapes into sets of similar polygons. How many of the shapes in the sets do not appear to be similar to any other shape?
 - **A** 5 **B** 4 **C** 3 **D** 0
- 2. A local farm equipment dealership has model tractors. The length of the actual tractor is 5.6 m. What scale factor was used for the reduction? Hint: First, change metres to centimetres.





BLM 4-7



3. A penny has a diameter of 19 mm. Brenda used a scale factor of 3 to create a scale drawing of the penny. Which of the following statements about Brenda's drawing is true?



- A Brenda drew an enlargement. The drawing has a diameter of 57 mm.
- **B** Brenda drew an enlargement. The drawing has a diameter of about 6.3 mm.
- **C** Brenda drew a reduction. The drawing has a diameter of 57 mm.
- **D** Brenda drew a reduction. The drawing has a diameter of about 6.3 mm.



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4. Which of the following triangles is similar to the given triangle?



Complete the statements in #5 and #6.

5. Using the information given in the diagram, the height of the actual tree is _____ m.



BLM 4–7 (continued)

4

3





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BLM 4-7 (continued)

Short Answer

7. Use a scale factor of 0.5 to draw a reduction of this figure.



8. Raul's grandfather collects models of ships such as *Bluenose*. The model measures 120 mm in length. The scale used to make the model is 1 : 470. **Hint:** 1 m = 1000 mm.

Calculate the length of the actual ship to the nearest tenth of a metre.



Written Response

9. Are the triangles similar? Show your work.







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BLM 4–7 (continued)

10. The trapezoids are similar. Find the missing side length, x. Show your work.



