

Assignment Record Sheet

Math Core C

Full Name: _____ **Week: 12/16 - 12/20**

Unit Name: Stretching and Shrinking Periods: 3 & 5

Date Assigned	Focus Question??	Homework (IP=in packet)	Meets Expectation (15 points)	Approaching Expectations (5 points)	Below Expectation (0 points)
Monday Dec. 16	<i>How can you use similar triangles to estimate the heights of all objects?</i>	WU: None CW: Trimester 2 Assessment HW:	WU: CW: HW:		
Tuesday Dec. 17	<i>How can you use similar triangles to estimate the heights of all objects?</i>	WU: None CW: Unit Test Review – Day 1 HW: None	WU: CW: HW:		
Wed. Dec. 18	<i>How can you use similar triangles to estimate the heights of all objects?</i>	WU: None CW: Unit Test Review – Day 2 HW: Study for test	WU: CW: HW:		
Thursday Dec. 19	<i>How can you use similar triangles to estimate the heights of all objects?</i>	WU: None CW: Unit Test – Day 1 HW: None	WU: CW: HW:		
Friday Dec. 20	<i>How can you use similar triangles to estimate the heights of all objects?</i>	WU: None CW: Unit Test – Day 2 HW: None Turn in your packet	WU: CW: HW:		

Total Homework Score for the Week: _____/75

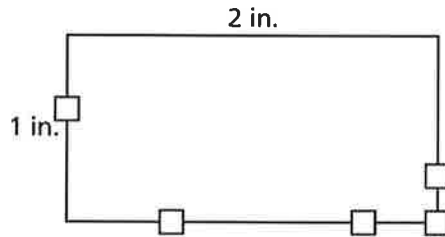
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Daily Materials Score _____/25

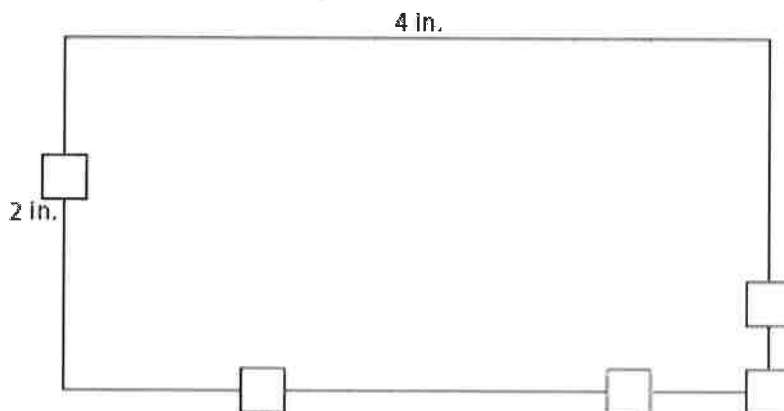
Unit Test Review

Use the following diagrams of the floor plans for a tree house before and after reduction and enlargement by a copier to answer Exercises 1–4.

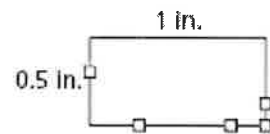
Original Tree House Floor Plan



Enlarged Tree House Floor Plan



Reduced Tree House Floor Plan



1. What is the scale factor from the original design to the enlarged design?
2. What is the scale factor from the original design to the reduced design?
3. Circle the statement that tells how the perimeter of the enlarged design compares to the perimeter of the original design. Then explain your answer.
 - A. The perimeter of the enlarged design is $\frac{1}{2}$ of the perimeter of the original.
 - B. The perimeter of the enlarged design is the same as the perimeter of the original.
 - C. The perimeter of the enlarged design is twice the perimeter of the original.
 - D. The perimeter of the enlarged design is four times the perimeter of the original.

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Stretching and Shrinking

Unit Test Review (continued)

4. Circle the statement that tells how the area of the reduced design compares to the area of the original design. Then explain your answer.
- F. The area of the reduced design is $\frac{1}{2}$ of the area of the original.
 - G. The area of the reduced design is the same as the area of the original.
 - H. The area of the reduced design is $\frac{1}{4}$ of the area of the original.
 - J. The area of the reduced design is four times the area of the original.

5. The following rules for drawing backpacks for the Wumps are given below:

Backpack 1: (x, y)

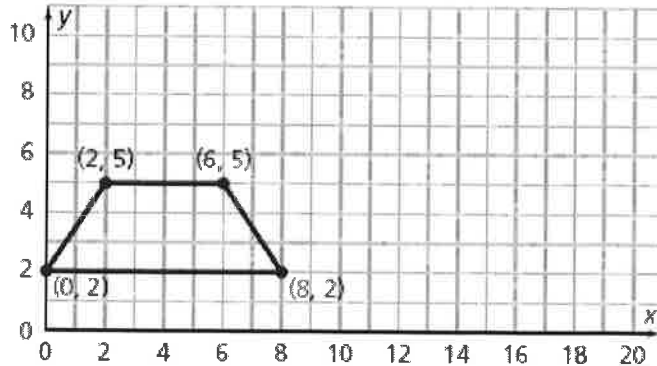
Backpack 2: $(2x, 2y)$

Backpack 3: $(x + 8, y - 2)$

Backpack 4: $(x, 2y)$

- a. Backpack 1 is plotted on the grid below. Match the remaining Backpacks 2–4 with graphs A–C on the next page. Explain your reasoning.

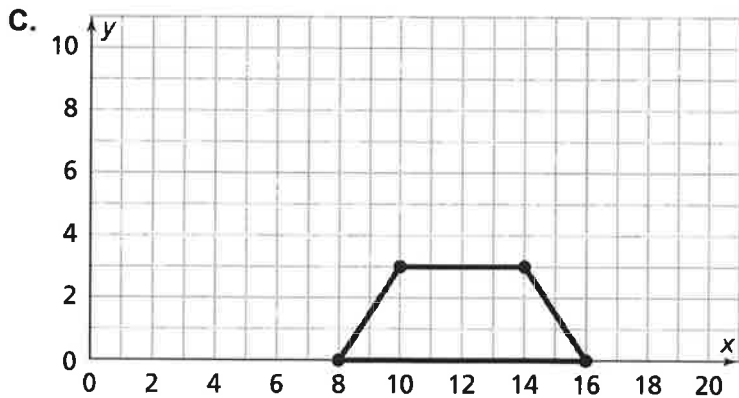
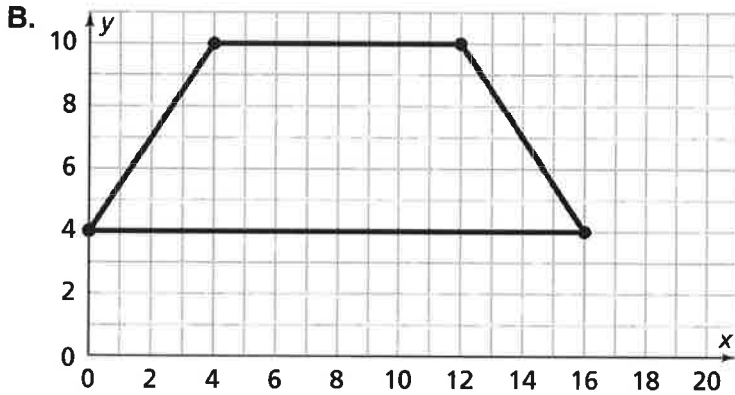
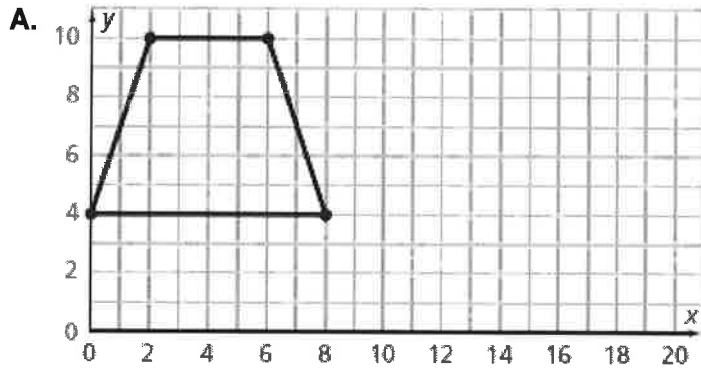
Backpack 1



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Stretching and Shrinking

Unit Test Review (continued)



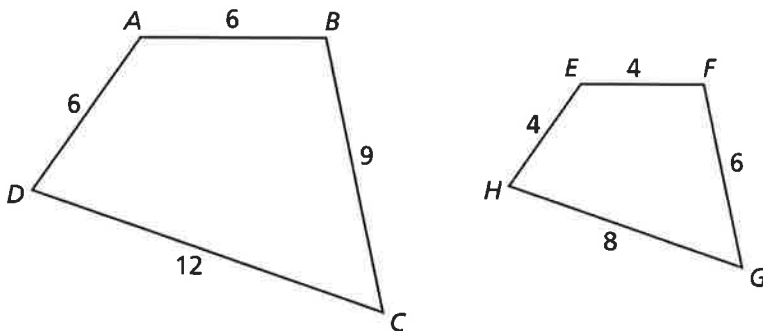
b. Which backpacks are similar? Explain.

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Stretching and Shrinking

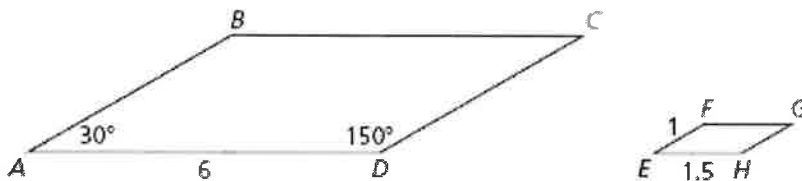
Unit Test Review (continued)

6. Consider the two polygons below.



Does the diagram provide enough information to determine whether the two polygons are similar? If not, what additional information would you need?

7. The parallelograms below are similar.



a. Find the length of side AB and the measure of angle E . Explain how you found your answers.

side $AB =$ _____ angle $E =$ _____

b. Find the ratio of the lengths of two adjacent sides in one parallelogram. Then find the ratio of the corresponding side lengths in the other. How do the ratios compare?

c. Find the ratio of a pair of corresponding sides in the two parallelograms. What information does this ratio tell you about the two parallelograms? Explain.

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Stretching and Shrinking

Unit Test Review (continued)

8. Use the diagram below to determine the height of the flagpole.

