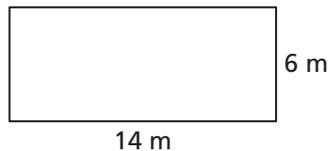Name _____ Date _____ Class _____

1. The base of a rectangle is 12 feet and the height is 4 feet.

4 ft

12 ft
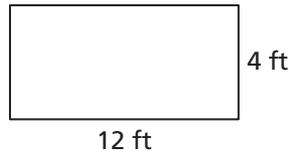
If the height of the rectangle is doubled, what will be the area of the new rectangle?

A. 16 square feet **C**. 48 square feet

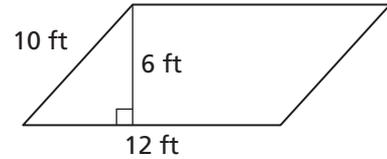**B.** 32 square feet **D**. 96 square feet

2. The base of a rectangle is 14 meters and the height is 6 meters.

6 m

14 m

If the base of the rectangle is halved, what will be the perimeter of the new rectangle?

F. 20 meters **H**. 34 meters

G. 26 meters **I**. 40 meters

3. Maggie draws a right triangle. If she doubles the dimensions, how will the perimeter of the triangle change?

A. The perimeter will double.

B. The perimeter will triple.

C. The perimeter will be 4 times greater in length.

D. It cannot be determined how the perimeter will change.

4. Jessica draws this parallelogram.

10 ft

6 ft

12 ft

Michael draws a parallelogram with a base that is half as long, but with other dimensions the same. What will be the area of Michael's parallelogram?

F. 30 square feet **H**. 60 square feet

G. 36 square feet **I**. 120 square feet

5. Alfonso draws a parallelogram that has an area of 84 square centimeters. Jenna draws a parallelogram with double the area. Which could NOT be true of her parallelogram?

A. The length of the base is double.

B. The length of the height is double.

C. The length of the base and the length of the height is double.

D. The base is 12 centimeters and the height is 14 centimeters.

6. Square A has a perimeter of 48 feet. Square B has an area of 49 feet square. Which statement is true?

F. Square B has the greater side length.

G. Square A has the lesser area.

H. The perimeter of Square A is more than double the perimeter of Square B.

I. The area of Square A is more than double the area of Square B.

Holt McDougal Math

Use the Gridded Response Answer Sheet.

7. The school has folding rectangular tables with the dimensions shown in the figure below.

8 feet

3 feet

For a banquet Maurice puts two of these rectangular tables together to make one long rectangular table. How many feet of ribbon does he need to go around the perimeter of the long table?

8. Last year Mr. Jacobs had a triangular flower garden in his back yard.

26 feet

10 feet

24 feet
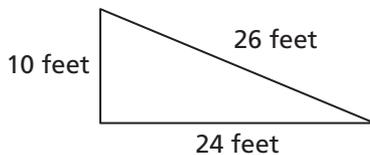
This year he is putting in a swimming pool and will halve all the dimensions of his flower garden. What will be the area in square feet of his new flower garden?

9. Mrs. Wilson is remodeling her kitchen.

8 feet
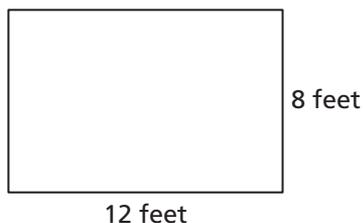
12 feet

If she doubles the width of the kitchen, what will be the area of her remodeled kitchen in square feet?

10. Alissa has two square tablecloths. The larger one measures 6 feet on a side. The smaller one has a perimeter of 12 feet. How much more area in square feet will the larger tablecloth cover than the smaller tablecloth?

11. A trapezoid has an area of 64 square centimeters.

$A = 64$ cm^2
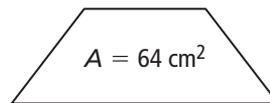
If the dimensions of the trapezoid are all tripled, what will be the area of the trapezoid in square centimeters?

12. Mr. Baker has a square patio with an area of 144 square feet.

$A = 144$ ft^2
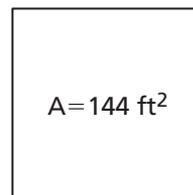
If the patio is replaced with one that has sides 1.5 times the length of the original patio. What will be the length in feet of the perimeter of the new patio?

Holt McDougal Math