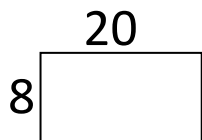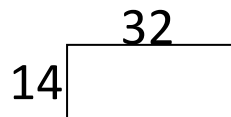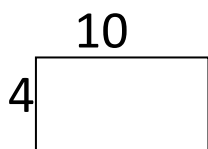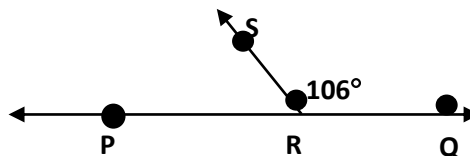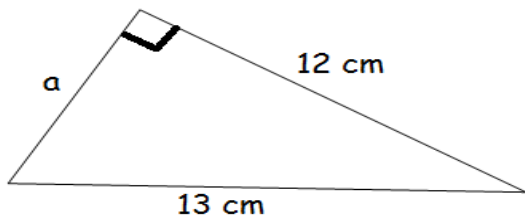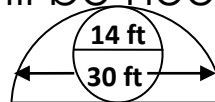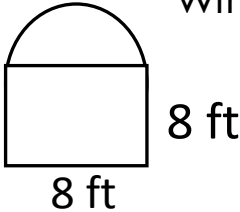|	
1. The side lengths of the original figure in the diagram are dilated by a scale factor of ¼. The perimeter of the original figure is how many times larger than the new figure? 20 8 ▭	2. The side lengths of the figure in the diagram are dilated by a scale factor of ½. What is the perimeter of the resulting figure? 32 14 ▭
3. The side lengths of the figure in the diagram are dilated by a scale factor of 3. What is the area of the resulting figure? 10 4 ▭	4. Will the following side lengths, **20 feet, 16 feet and 3 feet** form a triangle? Yes or No.
5. Will the following side lengths, 1**2 feet, 8 feet and 13 feet** form a triangle? Yes or No.	6. If ∠SRQ is 106°, what is the measure of ∠SRP? S 106° P R Q
7. The area of the triangle below is 30 cm². What is the length of a? 12 cm a 13 cm	8. The King family is putting a concrete patio around their pool. The shaded region below shows the area that will be covered with concrete. How much concrete will be needed? 14 ft 30 ft

9. ∠N and ∠M are vertical angles. If ∠N = 54°, and ∠M is represented by the expression 4x – 6, what is the value of x?	10. What does the 3rd side need to be to form an isosceles triangle? 23m, 27m, ____
11. The area of the cookie is approximately 28 in². What is the best estimate of the radius? 5in, 4 in, or 3 in	12. A jar has a radius of 2 in and a height of 9 in. How much jam can fit in the jar?
13. A cube has side lengths of 8 cm. How much paint would be needed to cover the cube?	14. A cube has side lengths of 8 cm. How much sand would be needed to fill the cube?
15. The circumference of a circle is 110 ft. What is the approximate radius of the circle?	16. The window is in the shape of a square and a half circle. What is the approximate area of the window? 8 ft 8 ft

ANSWER CARDS

A 199.39	B 46
C 384	D YES
E 89.12	F 23
G 74	H 4
I 512	J 15
K 113.04	L NO
M 17.5	N 3
O 5	P 360