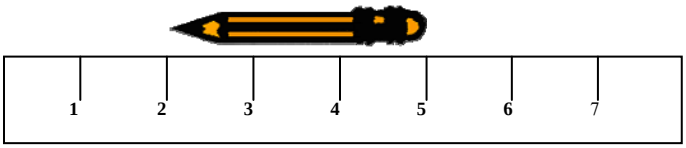
Geometry and Measurements
Worksheet 1

Choice *E*, in multiple-choice questions, is always: *I request help from the teacher*.

You may mark E in addition to one other choice if you think that you have the right answer to the question but you do not feel that you have a complete understanding of the problem.

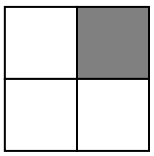
Your teacher will decide whether to use the two-point or four-point scoring rubric for problems that use numbers, pictures, or words to justify/explain your answer(s). You may request help for these questions, too. Write the word "teacher" by your answer(s).

1. What is the length of the pencil?



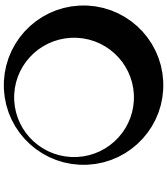
   A. 2 inches
   B. 3 inches
   C. 4 inches
   D. 5 inches
   E. Teacher

2. The larger square figure at the right is 6 inches on a side. The large square is divided into four identical smaller squares. What is the area of the shaded square?



   A. 9 sq. in.
   B. 36 sq. in.
   C. 6 sq. in.
   D. 3 sq. in.
   E. Teacher

3. The area of the larger circle at the right is 49 sq. cm, and the area of the smaller circle is 25 sq. cm. What is the area of the shaded region?



   A. 74 sq. in.
   B. 25 sq. in.
   C. 49 sq. in.
   D. 24 sq. in.
   E. Teacher

4. A classroom has exactly 7 rows of desks with 6 desks in each row. How many desks are in the room? Use pictures, numbers, or words to justify your answer.

5. An advertisement proclaims that a pizza having a 16" diameter is twice the size of a pizza having an 8" diameter. Is this a true statement? Use pictures, numbers, or words to justify your answer. Answers may be rounded to the nearest whole number.

6. The chart shows the boiling and freezing temperatures of water in both Celsius and Fahrenheit scales. Which statement is true?

   A. 1°F < 1°C
   B. 1°C < 1°F
   C. 1°C = 1°F
   D. Not enough information
   E. Teacher

	C°	F°
Freezing Water	0°	32°
Boiling Water	100°	212°

7. A box (not shown) has the measurements 3 ft. x 5 ft. x 8 ft. What is the volume of the box?

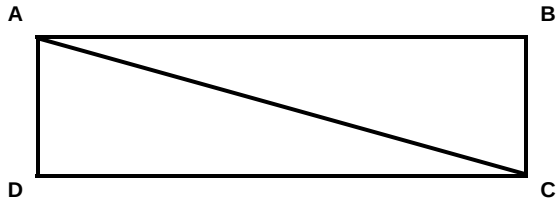
   A. 16 ft. B. 16 cu. ft. C. 120 ft. D. 120 cu. ft. E. Teacher

8. How many square feet of material are needed to construct the box in exercise #7?

   A. 158 sq. ft B. 120 sq. ft. C. 55 sq. ft. D. 316 sq. ft. E. Teacher

9. In the rectangle at the right, AD = 3 ft. and DC = 5 ft., what is the area of triangle ABC?

   A. 15 sq. ft.
   B. 7.5 sq. ft.
   C. 16 sq. ft.
   D. Not enough information
   E. Teacher



10. The student council wanted to paint a welcome sign in the entrance of Western High School – Enigma's new high school. The wall was made of concrete block so, to prepare the wall, they needed to cover the entire surface with white interior primer paint. The wall has the dimensions of 8 ft. by 55 ft. If a gallon of paint covers 250 sq. ft., how many gallons are needed for the wall? Use pictures, numbers, or words to justify your answer.