Name _____ Date _____ Class _____

CHAPTER 5

At-Home Practice

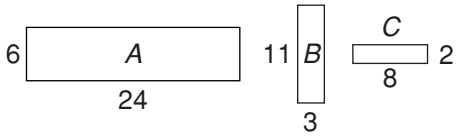
Similarity and Scale

Use the properties of similar figures and indirect measurement to answer each question.

1. A 5 in. long by 7 in. wide picture is going to be made into a similar poster with a length of 6 ft. How wide will the poster be?

_____

2. Is rectangle A similar to rectangle *B* or to rectangle *C*?



_____

3. Using a scale of $\frac{1}{2}$ cm:2 m, how long is an object that measures 3.5 cm long in a scale drawing?

_____

4. Using a 100x magnification microscope, a paramecium has a length of 2.8 mm. What is the actual length of the paramecium?

_____

A cube with side lengths of 8 cm is built from small unit cubes. Compare the following values:

5. the side lengths of the two cubes

_____

6. the surface areas of the two cubes

_____

7. the volumes of the two cubes

_____

Answers: 1. 8.4 ft 2. rectangle C. 3. 14 m 4. 0.028 mm 5. The sides of the larger cube are 8 times longer than the smaller cube. 6. The surface area of the larger cube is 64 times that of the smaller cube. 7. The volume of the larger cube is 512 times that of the smaller cube.

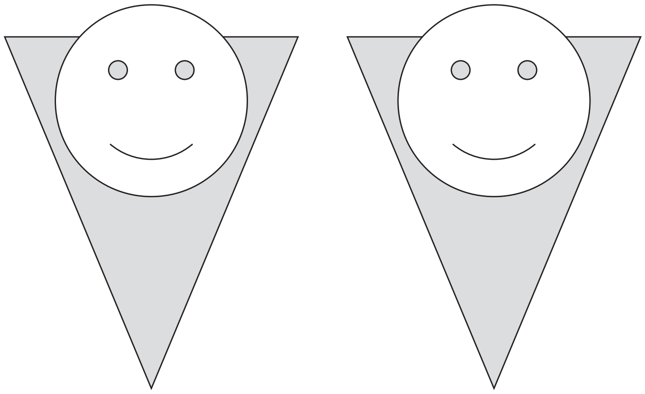
Name ______________________________ Date __________ Class __________

CHAPTER 5

Family Fun

Scrambled Fun

Why do Tommy Triangle's twin brothers love math class?



Directions

Unscramble each of the clue words.

Take the letters that appear in ◯ boxes and unscramble them to get the answer to the riddle.

Clue	Boxes
IOTAR	◯ ◯ □ □ □
ROOPITRNPO	□ ◯ □ □ □ □ □ ◯ □ □
TERA	□ □ □ ◯
ROCSS RUDPOCT	□ □ ◯ ◯ ◯ □ □ □ □ ◯ □ □
NDRSIRCOENPOG SLGNEA	□ □ □ □ ◯ □ □ □ □ □ □ □ □ □ □ □ ◯ □ □
SECLA RFTCAO	◯ □ □ □ ◯ □ □ □ □ □ □
SOGIPENDNRORC DESIS	◯ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
CELSA LEMDO	□ □ ◯ □ □ □ □ □ ◯ □
CYPCIATA	□ ◯ □ □ □ ◯ □ ◯

B _ _ _ _ _ _   T H _ _   _ _ _   _ _

_ _ M _ _ _ _

Answer: ratio, proportion, rate, cross product, corresponding angles, scale factor, corresponding sides, scale model, capacity; Because they are so similar.