Fall Semester Exam 7th Grade

1. **TEK 7.4E, 7.1A** Andre can type 65 words per minute. How long would it take him to type 1235 words?
   a. 19
   b. 20
   c. 21
   d. 22

2. **TEK 7.4D, 7.1A** Rhonda worked out at a gym for 2 hours. Her workout consisted of stretching for 21 minutes, jogging for 45 minutes, and lifting weights for the remaining amount of time. What percentage of Rhonda's workout was spent lifting weights?
   a. 55%
   b. 45%
   c. 66%
   d. 54%

3. **TEK 7.4D, 7.1B** Marcella bought a 25-ounce bottle of olive oil for $5.88. She used 60% of the olive oil in two weeks. Which of the following is closest to the cost of the oil she used? *hint: how much would 50% cost?*

    a. $0.24
    b. $0.39
    c. $2.35
    d. $3.53

4. **TEK 7.4E, 7.1A** A car wash sells a special pack of 12 car washes for $95.40. What is the cost per car wash?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

5. **TEK 7.4D, 7.1A** Amanda increased the amount of protein she eats every day from 48g to 54 g. By what percentage did Amanda increase the amount of protein she eats?
    a. 11.1%
    b. 88.9%
    c. 112.5%
    d. 12.5%

6. **TEK 7.4D, 7.1B** Chips Chocolate Factory is giving away free toothbrushes. Three out of every 500 candy bars produce will contain a coupon for a free toothbrush. What percent of candy bars will contain a coupon?
    a. 0.3%
    b. 0.6%
    c. 0.75%
    d. 3.5%

7. **TEK 7.4E, 7.1A** Lilly can ride her bike 4 miles in 30 minutes. If she rides as the same speed, how long will it take her to ride 12 miles?
    a. 60 minutes
    b. 90 minutes
    c. 120 minutes
    d. 55 minutes

8. **TEK 7.4D** If 8 is equal to 50% of x, what is the value of x?
    a. 4
    b. 13
    c. 16
    d. 40

9. **TEK 7.4D, 7.1B** The movie theater offers matinee tickets that are 35% **cheaper** than the tickets for the evening shows. If an evening tickets costs $8.00, how much does a matinee ticket cost?
    a. $1.50
    b. $5.20
    c. $7.65
    d. $10.80

10. **TEK 7.5A, 7.1A** Jessica has a rectangular picture. The picture is similar to a rectangle that measures 4 inches by 6 inches. What could be the dimensions of Jessica's picture?
    a. 8 in. by 10 in.
    b. 2 in. by 3 in.
    c. 5 in. by 7 in.
    d. 12 in. by 14 in.

11. **TEK 7.5C, 7.1A** In the scale used on a blueprint, 1 inch represents 2 feet. On the blueprint what is the length of a room with an actual length of 20 feet?
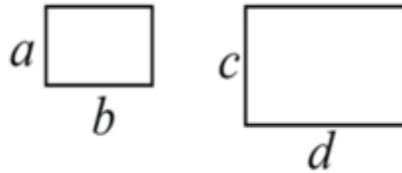   a. 10 in.
    b. 5 in.
    c. ½ in.
    d. 2 ½ in.

12. TEK 7.5C, 7.1C A building is 20 feet tall and cast a 12 foot shadow, and a person who is standing next to the building cast a 3 foot shadow. How tall would the person be?

    a. 15 feet
    b. 20 feet
    c. 2.5 feet
    d. 5 feet

13. TEK 7.5A, 7.1B

Look at the similar rectangles below.

Which of the following is true about the similar rectangles?

    a. Both rectangles are the same size.
    b. Both rectangles have congruent angles.
    c. Both rectangles have lengths that are congruent.

14. TEK 7.5C, 7.1C Monica made a scale drawing of her bedroom in order to rearrange her furniture. She uses a scale of 2 in. = 1 foot. Her rug is 6 feet by 8 feet. What scale dimensions represent her rug?
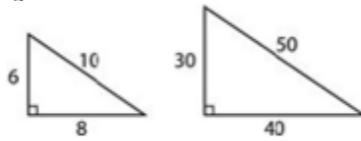
    a. 6 in by 8 in
    b. 12 ft by 8 in

c. 6 ft by 16 ft

d. 8 ft by 16 ft

15. TEK 7.5C, 7.1A The dimensions of a rectangular photograph are nine centimeters by six centimeters. If the photograph is enlarged proportionally so that the length is 15 centimeters, what would the width of the enlarge photograph be?

a. 8 centimeters

b. 9 centimeters

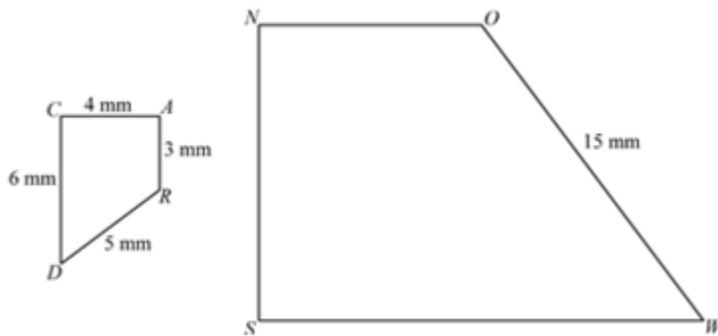c. 10 centimeters

d. 12 centimeters.

16. TEK 7.5A, 7.1A

Look at the figures below.

Which would NOT be a way to show that the figures are similar?

A. The angles in both triangles are the same size.

B. The corresponding sides in each triangle are proportional.

C. The corresponding sides in each triangle are the same length.
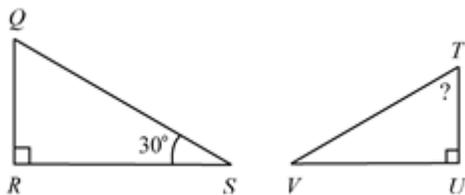
17. TEK 7.5C, 7.1B Quadrilateral CARD is similar to quadrilateral SNOW

What is the length of SW is millimeters?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

18. TEK 7.5C, 7.1A Triangle QRS is similar to triangle TUV

What is the measure of angle VTU? *hint all three angles in a triangle must add up to 180°

a. 30°
b. 90°
c. 180°
d. 60°