

JMJ

Name: \_\_\_\_\_

Math 8

Date: \_\_\_\_\_

Ch. 3 sec 11

Directions: Write formulas, substitute, and solve.

- 1.) Find the radius of a circle whose area is  $28.26 \text{ m}^2$ .
- 2.) The area of a triangle is  $28 \text{ m}^2$ . Find the height if the base is 7 m.
- 3.) Find the height of a trapezoid if one base is 14 m, another base is 18 m, and the area is  $96 \text{ m}^2$ .
- 4.) Find the width of a rectangle whose length is 16 m and whose perimeter is 50 m.
- 5.) Find the height of a rectangular prism when the length is 15 m, the width is 6 m, and the volume is  $810 \text{ m}^3$ .
- 6.) The area of a square is  $196 \text{ m}^2$ . Find its perimeter.
- \*\*7.) Find the edge of a cube whose volume is  $64 \text{ m}^3$ .
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- 8.) The area of a square is  $225 \text{ m}^2$ . Find its perimeter.
- 9.) The area of a square is  $144 \text{ m}^2$ . Find its perimeter.
- 10.) The length of a rectangle is three times its width. Its area is  $48 \text{ m}^2$ . Find the length and width of this rectangle.
- 11.) The length of a rectangle is five times its width. Its area is  $125 \text{ m}^2$ . Find the length and width of this rectangle. Then find its perimeter.
- 12.) The length of a rectangle is six times its width. Its area is  $96 \text{ m}^2$ . Find the length and width of this rectangle. Then find its perimeter.
- 13.) The length of a rectangle is seven times its width. Its area is  $112 \text{ m}^2$ . Find the perimeter of the rectangle.
- 14.) The length and width of a rectangle are in a ratio of 9 : 8. Find the length and width of this rectangle if its perimeter is 170 m.
- 15.) The width and length of a rectangle are in a ratio of 5 : 7. Find the length and width of this rectangle if its perimeter is 480 m.
- 16.) The width and length of a rectangle are in a ratio of 4 : 9. Find the length and width of this rectangle if its perimeter is 520 m.
- 17.) The length and width of a rectangle are in a ratio of 5 : 4. Find the length and width of this rectangle if its perimeter is 540 m.
- 18.) The length of a rectangle is two meters more than its width. Find the length and width of a rectangle if its perimeter is 20 m.
- 19.) The length of a rectangle is five meters more than its width. Find the length and width of a rectangle if its perimeter is 54 m.
- 20.) The length of a rectangle is 11 meters more than its width. Find the length and width of a rectangle if its perimeter is 38 m.
- 21.) The width of a rectangle is five meters less than its length. Find the dimensions of the rectangle if the perimeter is 26 m.
- 22.) The width of a rectangle is eight meters less than its length. Find the dimensions of the rectangle if the perimeter is 52 m.