

**6th Review #84 – MUST SHOW WORK
FOR EACH PROBLEM **NO
CALCULATORS on 5****

1. Bob wants a border around the outside of his circular pool. The pool has a radius of 9.5 feet. How much border will he need to border his pool? *(Draw the figure; write the formula; use formula to solve)*

- A 29.83 feet
- B 283.39 feet
- C 59.66 feet
- D 1,133.54 feet

2. Jake has a square room that he wants to border. The side length is 14 ft. How much border does he need?

3. Create a ratio table from the ratio 3:5

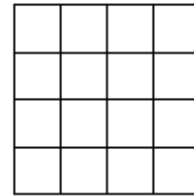
| X | Y |
|----|---|
| 3 | 5 |
| 6 | |
| 9 | |
| 12 | |

Name _____

4. Simplify the expression below and write as an improper fraction. *(Show PEMDAS and work to solve problem)*

$$\frac{30 + 4 \cdot 5}{2}$$

5. The model below represents 1 whole and is divided into equal parts. Shade the model to represent $\frac{3}{8}$ of the whole. *(Prove that you have shaded this amount)*



6. Use the numbers below to create an ordered pair located on the y – axis. *(Show how you know the ordered pair is on the y-axis)*

(,)

Adv. Review #84 (7th grade SOLs)

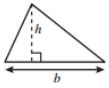
SHOW HOW YOU SOLVED EACH PROBLEM –

7. Solve.

$$(-4)^4$$

8. How much area is shown in the shaded region? (Hint: Find the area of both the shapes)

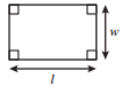
Geometric Formulas



$$A = \frac{1}{2}bh$$



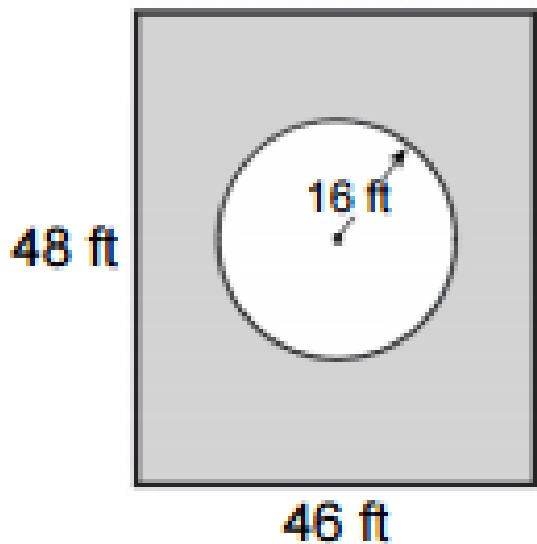
$$p = 4s$$
$$A = s^2$$



$$p = 2l + 2w$$
$$A = lw$$



$$C = 2\pi r$$
$$C = \pi d$$
$$A = \pi r^2$$



9. Model the following expression with counter chips (+, -); then solve.

$$-1 + 7$$

10. If a square room has an area of 4 square meters, what is the side length of the room?