

**6th Review #86 – MUST SHOW WORK
FOR EACH PROBLEM **USE
CALCULATORS****

1. There is a square garden that needs fence built around it. How many feet of fence would be needed to build it if the length of the garden is measured to be 15 feet?

2.

The fraction $\frac{7}{8}$ is equivalent to—

- A 87.5%
- B 875%
- C 0.875%
- D 0.0875%

3. Which of the following is a perfect square number? (*Show how you know*)

- A 75 B 49
- C 9 D 30

Name _____

4. Fran earned \$40 dollars last week recycling aluminum cans. This week she earned \$20. She wants to save $\frac{1}{4}$ of her earnings. How much money will she save?

5. Identify the tables that represent a proportional relationship between x and y.

<i>x</i>	30	24	18	12
<i>y</i>	10	8	6	4

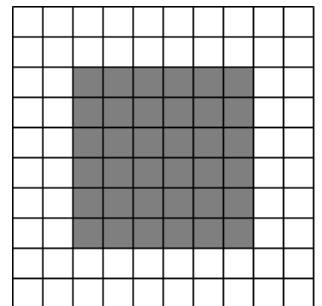
<i>x</i>	5	7	13	18
<i>y</i>	25	35	60	90

<i>x</i>	2	4	6	8
<i>y</i>	9	18	27	36

<i>x</i>	3	7	9	11
<i>y</i>	27	63	81	99

6. The shaded area represents which expression below? (*Show how you solved*)

- A $6 \cdot 2$
- B 36^2
- C $36 \div 6$
- D 6^2



Adv. Review #86 (7th grade SOLs)

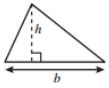
SHOW HOW YOU SOLVED EACH PROBLEM – NO CALCULATORS!

7. Solve.

$$(-10)^3$$

8. How much area is shown in the shaded region?

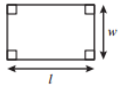
Geometric Formulas



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



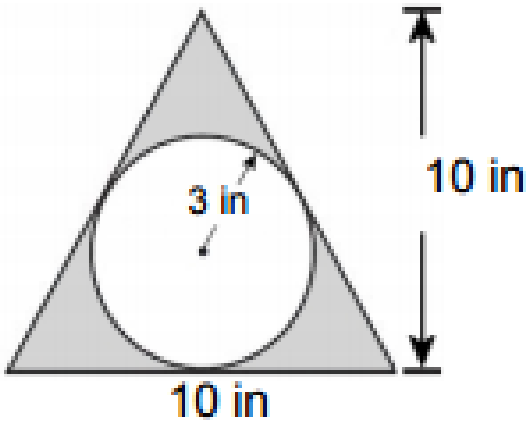
$$p = 4s$$
$$A = s^2$$



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



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



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

$$-10 + 3$$

10. Which of the following represents the side length of the squares?



- A** $\sqrt{4}$
- B** $\sqrt{16}$
- C** 16
- D** 4