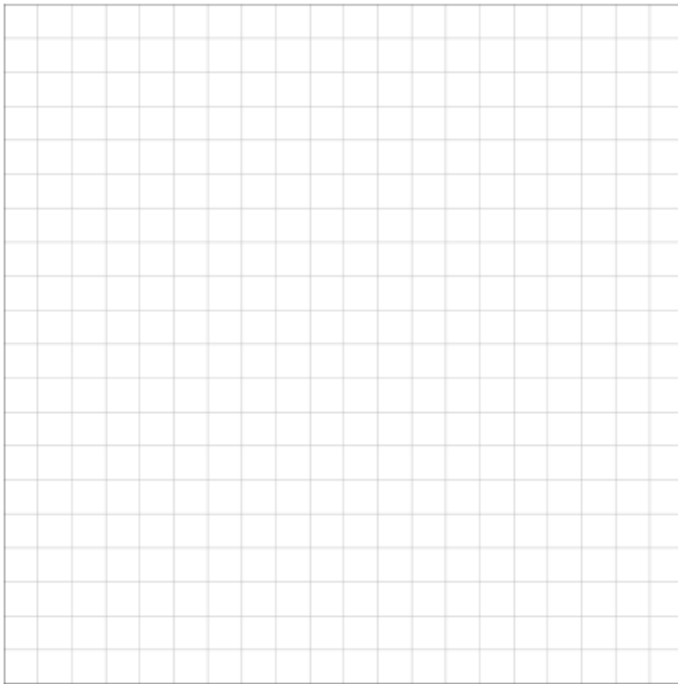


Advanced Review #17 SHOW HOW YOU SOLVED EACH PROBLEM – No Calc on 1,2,3,

NAME _____

1. Draw a square with an area of 36 units².

The number 36 is a square number. On the grid below, draw a figure that shows 36 as a square number.



Therefore, what is the **square root** of 36?

2.

The diameter of a red blood cell is approximately 0.00074 centimeter. Expressed in scientific notation, this number is

- A. 7.4×10^{-4} cm B. 7.4×10^4 cm
C. 74×10^{-3} cm D. 74×10^3 cm

3. Which of the following correctly represents 10^{-2} ?

- A) $\frac{1}{100}$, 0.001
B) $\frac{1}{100}$, 0.01
C) $\frac{1}{10}$, 0.001
A) $\frac{1}{10}$, 0.01

4.

Which number is *not* a perfect square?

- A** 36
B 49
C 72
D 100

5. Compare and order the following numbers from least to greatest. (Hint: Change all to similar form, then line up the decimal to compare.)

$$4.5\% \quad 4.5 \times 10^{-3} \quad 0.0000045$$

6. Solve the following using order of operations.

$$3^3 + \sqrt{324} \div 2$$

Advanced 7th Pre-Algebra Practice
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7) Explain your answer.

PETS Alicia and Ella are comparing the weights of their pet dogs. Alicia reports that her dog weighs $11\frac{1}{5}$ pounds while Ella says that her dog weighs $\sqrt{120}$ pounds. Whose dog weighs more?

8)

Check all of the following that apply.

$$\sqrt{2}$$

- Real Number
- Irrational
- Rational
- Integer
- Whole
- Natural

3)

Order the following from least to greatest:

$$\frac{1}{\sqrt{4}}, \frac{1}{\sqrt{16}}, \frac{1}{\sqrt{25}}, \frac{1}{\sqrt{9}}$$

4)

The irrational number $\sqrt{113}$ lies between which two consecutive whole numbers?

Which whole number is it closest to?