

NAME _____

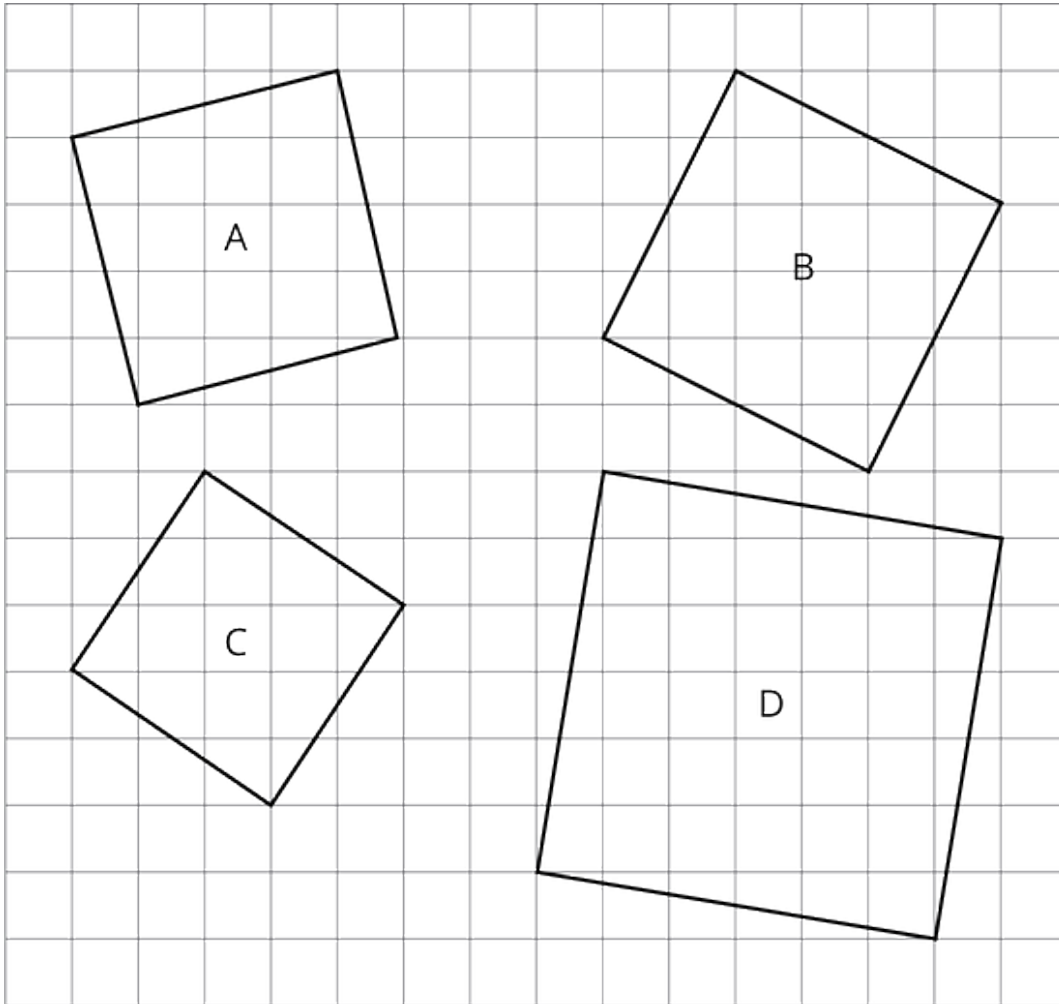
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Unit 8, Lesson 1

Practice Problems

1. Find the area of each square. Each grid square represents 1 square unit.



2. Find the length of a side of a square if its area is:

- a. 81 square inches
- b. $\frac{4}{25}$ cm²
- c. 0.49 square units
- d. m^2 square units



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3. Find the area of a square if its side length is:

- a. 3 inches
- b. 7 units
- c. 100 cm
- d. 40 inches
- e. x units

4. Evaluate $(3.1 \times 10^4) \cdot (2 \times 10^6)$. Choose the correct answer:

- A. 5.1×10^{10}
- B. 5.1×10^{24}
- C. 6.2×10^{10}
- D. 6.2×10^{24}

5. Noah reads the problem, “Evaluate each expression, giving the answer in scientific notation.” The first problem part is: $5.4 \times 10^5 + 2.3 \times 10^4$. Noah says, “I can rewrite 5.4×10^5 as 54×10^4 . Now I can add the numbers: $54 \times 10^4 + 2.3 \times 10^4 = 56.3 \times 10^4$.” Do you agree with Noah’s solution to the problem? Explain your reasoning.

6. Select **all** the expressions that are equivalent to 3^8 .

- A. $(3^2)^4$
- B. 8^3
- C. $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$
- D. $(3^4)^2$
- E. $\frac{3^6}{3^{-2}}$
- F. $3^6 \cdot 10^2$