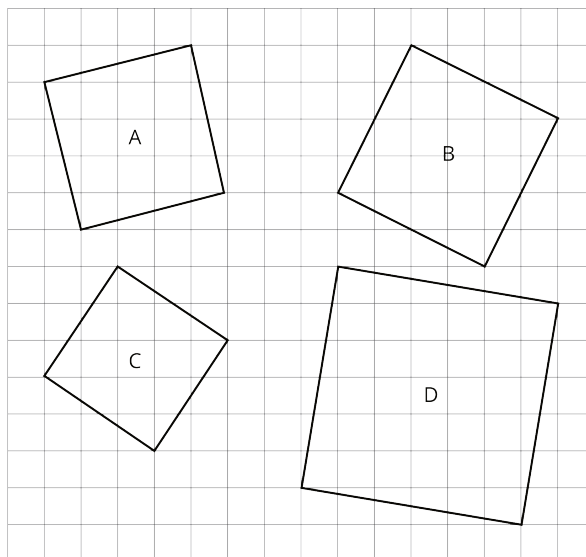


## Lesson 1 Practice Problems

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.  $\frac{4}{25}$  cm<sup>2</sup>

c. 0.49 square units

d.  $m^2$  square units

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.  $5.1 \times 10^{10}$

B.  $5.1 \times 10^{24}$

C.  $6.2 \times 10^{10}$

D.  $6.2 \times 10^{24}$

(From Unit 7, Lesson 14.)

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  $5.4 \times 10^5$  as  $54 \times 10^4$ . 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.

(From Unit 7, Lesson 15.)

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.  $3^6 \cdot 10^2$

(From Unit 7, Lesson 6.)