## Unit 8 Lesson 1 Cumulative Practice Problems

1. Find the area of each square. Each grid square represents 1 square unit.
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1. Find the length of a side of a square if its area is:
	1. 81 square inches
	2. $\frac{4}{25}$ cm2
	3. 0.49 square units
	4. $m^{2}$ square units
2. Find the area of a square if its side length is:
	1. 3 inches
	2. 7 units
	3. 100 cm
	4. 40 inches
	5. $x$ units
3. Evaluate $(3.1×10^{4})⋅(2×10^{6})$. Choose the correct answer:
	1. $5.1×10^{10}$
	2. $5.1×10^{24}$
	3. $6.2×10^{10}$
	4. $6.2×10^{24}$
* (From Unit 7, Lesson 14.)
1. Noah reads the problem, “Evaluate each expression, giving the answer in scientific notation.” The first problem part is: $5.4×10^{5}+2.3×10^{4}$.
* Noah says, “I can rewrite $5.4×10^{5}$ as $54×10^{4}$. Now I can add the numbers: $54×10^{4}+2.3×10^{4}=57.3×10^{4}$.”
* Do you agree with Noah’s solution to the problem? Explain your reasoning.
* (From Unit 7, Lesson 15.)
1. Select **all** the expressions that are equivalent to $3^{8}$.
	1. $(3^{2})^{4}$
	2. $8^{3}$
	3. $3⋅3⋅3⋅3⋅3⋅3⋅3⋅3$
	4. $(3^{4})^{2}$
	5. $\frac{3^{6}}{3^{-2}}$
	6. $3^{6}⋅10^{2}$
* (From Unit 7, Lesson 6.)



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