Name _____ Date _____

Skills Maintenance

Algebraic Patterns

Activity 1

Select the set of boxes that represents the algebraic pattern. The variable *n* represents the box number.

1. $5 \cdot n$

(a)

Box 1	Box 2	Box 3	Box 4
○○○○○	○○○○	○○○	○○

(b)

Box 1	Box 2	Box 3	Box 4
○○	○○○○	○○○○○○	○○○○ ○○○○ ○○○○ ○○○○

(c)

Box 1	Box 2	Box 3	Box 4
○○○○○	○○○○○ ○○○○○	○○○○○ ○○○○○ ○○○○○	○○○○○ ○○○○○ ○○○○○ ○○○○○

2. $n \cdot 3$

(a)

Box 1	Box 2	Box 3	Box 4
	○	○○	○○○

(b)

Box 1	Box 2	Box 3	Box 4
○○○	○○○○○○	○○○○○○ ○○○	○○○○○○ ○○○○○○

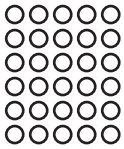
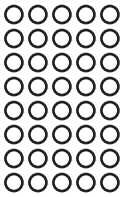
(c)

Box 1	Box 2	Box 3	Box 4
○○○○	○○○	○○	○

Name _____ Date _____

3. $10 \cdot n$

(a)

Box 1	Box 2	Box 3	Box 4
			

(b)

Box 1	Box 2	Box 3	Box 4
			

(c)

Box 1	Box 2	Box 3	Box 4
			

Name _____ Date _____

Problem-Solving Activity

Comparing Ratios

Look at the pairs of ratios in the problems. Cross out the ratio that needs to be changed so you can compare the two ratios. Then write the equivalent ratio. Circle what is the same in the pair of ratios—cost or quantity.

Model

$\frac{\text{Pounds of hamburger}}{\text{Cost}}$ $\frac{3}{\$4}$ $\frac{5}{\$8}$

Answer $\frac{\text{Pounds of hamburger}}{\text{Cost}}$ ~~$\frac{3}{\$4}$~~ $\frac{6}{\$8}$ $\frac{5}{\$8}$

What is the same? (circle one) (COST) or QUANTITY

1. $\frac{\text{sweaters}}{\text{cost}}$ $\frac{3}{\$18}$ $\frac{5}{\$36}$

What is the same? (circle one) COST or QUANTITY

2. $\frac{\text{dozen muffins}}{\text{cost}}$ $\frac{4}{\$15}$ $\frac{8}{\$25}$

What is the same? (circle one) COST or QUANTITY

3. $\frac{\text{pairs of jeans}}{\text{cost}}$ $\frac{6}{\$100}$ $\frac{3}{\$40}$

What is the same? (circle one) COST or QUANTITY

Name _____ Date _____

4. $\frac{\text{apples}}{\text{cost}}$ $\frac{12}{\$6}$ $\frac{24}{\$10}$

What is the same? (circle one) COST or QUANTITY

5. $\frac{\text{pairs of shoes}}{\text{cost}}$ $\frac{4}{\$120}$ $\frac{2}{\$80}$

What is the same? (circle one) COST or QUANTITY

6. $\frac{\text{soft drinks}}{\text{cost}}$ $\frac{\text{6 pack}}{\$2}$ $\frac{\text{8 pack}}{\$6}$

What is the same? (circle one) COST or QUANTITY

Reinforce Understanding
Use the **mBook** ***Study Guide*** to review lesson concepts.