Activity 1

Select the visual pattern that matches the algebraic pattern.

1. $n-1$

   (a)
Box 1	Box 2	Box 3	Box 4	Box 5
O	OO	OOO	OOOO	OOOOO

   (b)
Box 1	Box 2	Box 3	Box 4	Box 5
	O	OO	OOO	OOOO

   (c)
Box 1	Box 2	Box 3	Box 4	Box 5
OO	OOO	OOOO	OOOOO	OOOOOO

2. $n+1$

   (a)
Box 1	Box 2	Box 3	Box 4	Box 5
O	OO	OOO	OOOO	OOOOO

   (b)
Box 1	Box 2	Box 3	Box 4	Box 5
	O	OO	OOO	OOOO

   (c)
Box 1	Box 2	Box 3	Box 4	Box 5
OO	OOO	OOOO	OOOOO	OOOOOO

3. $n+0$

   (a)
Box 1	Box 2	Box 3	Box 4	Box 5
O	OO	OOO	OOOO	OOOOO

   (b)
Box 1	Box 2	Box 3	Box 4	Box 5
	O	OO	OOO	OOOO

   (c)
Box 1	Box 2	Box 3	Box 4	Box 5
OO	OOO	OOOO	OOOOO	OOOOOO

Activity 2

Round to the nearest whole number that would make comparing the ratios easier. Then write the new problem.

Model 4 for $9.99 and 5 for $18.99

Answer: You would round $9.99 to $10 and $18.99 to $20.

The new problem is: 4 for $10 and 5 for $20.

1. 4 for $24.99 and 5 for $49.99

2. 3 for $2.99 and 4 for $5.99

3. 2 for $19.99 and 3 for $39.99

4. 6 for $35.99 and 4 for $17.99

Activity 3

Name the better deal.

1. Would you rather buy 5 packs of gum for $1.19 or 10 packs of gum for $2.99?

2. Would you rather buy 4 CDs for $59.99 or 2 CDs for $24.99?

3. Would you rather buy 3 candy bars for $0.99 or 6 candy bars for $1.49?

4. Would you rather buy 8 pencils for $3.99 or 5 pencils for $1.99?

Activity 4 • Distributed Practice

Solve.

1. $\frac{11}{12} - \frac{1}{6} = a$

2. $6.2 \cdot 0.2 = b$

3. $\frac{4}{8} \div \frac{2}{8} = c$

4. $119.05 + 230.99 = d$

5. Write the decimal number 0.17 as a percent.

6. Write the fraction $\frac{2}{5}$ as a decimal number.

7. Write 35% as a decimal number.

8. Write the fraction $\frac{2}{4}$ as a percent.