



# Homework

## Activity 1

Tell if the problem is (a) a proportion problem, (b) a best deal problem, or (c) a unit rate problem.

1. What is the cost for one box of pencils?

Boxes of Pencils	10	1
Cost	\$5	$x$

2. If 3 bags of chips cost \$5, how much will it cost for 6 bags of chips?

Bags of Chips	3	6
Cost	\$5	$x$

3. What's the better deal: 2 pairs of jeans for \$50 or 4 pairs of jeans for \$80?

Pairs of Jeans	2 pairs	4 pairs
Cost	\$50	\$80

4. If 12 cans of fruit juice cost \$3, how much will you pay for 24 cans?

Fruit Juice	12 cans	24 cans
Cost	\$3	$x$

## Activity 2

Match the visual pattern with the algebraic pattern given.

1.  $2 \cdot n$

(a)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○○○○	○○○○	○○○	○○	○
(b)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○○	○○○○○○	○○○○○○○ ○○○	○○○○○○○ ○○○○○○○	○○○○○○○ ○○○○○○○ ○○○
(c)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○	○○ ○○	○○○ ○○○	○○○○ ○○○○	○○○○○ ○○○○○

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2.  $n + 3$

(a)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○○○○	○○○○	○○○	○○	○
(b)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○○○	○○○○○	○○○○○○	○○○○○○○ ○	○○○○○○○ ○○
(c)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○	○○ ○○	○○○ ○○○	○○○○ ○○○○	○○○○○ ○○○○○

3.  $3 \cdot n$

(a)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○○○○	○○○○	○○○	○○	○
(b)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○○	○○○○○○	○○○○○○○ ○○○	○○○○○○○ ○○○○○○○	○○○○○○○ ○○○○○○○ ○○○
(c)	Box 1	Box 2	Box 3	Box 4	Box 5
	○○	○○ ○○	○○○ ○○○	○○○○ ○○○○	○○○○○ ○○○○○



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## Activity 3

Answer the questions about the table of data. Use ratios to set up your solutions. The data represent supplies that Tom needs to run his business—a hot dog stand at the park.

Tom's Hot Dog Stand Supplies	
Item	Quantity and Cost
Napkins	15 boxes for \$45
Hot Dogs	20 packages for \$200
Buns	10 packages for \$50
Ketchup	6 bottles for \$30
Mustard	6 bottles for \$28

- How much does it cost for 30 boxes of napkins?
- What is the unit rate for the packages of hot dogs?
- What's the better deal, the ketchup or the mustard?
- How many packages of hot dog buns can Tim buy for \$200?

## Activity 4 • Distributed Practice

Solve.

- $100.01 - 98.79 = a$
- $\frac{5}{6} \cdot \frac{6}{11} = b$
- $32.8 \div 4 = c$
- $\frac{1}{6} + \frac{1}{9} = d$
- Write the decimal number 0.03 as a fraction.
- Write the fraction  $\frac{4}{8}$  as a percent.
- Write 1% as a fraction.
- Write 5% as a decimal number.