

Key

Wed  
2/20/19

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PERIOD

# Unit 5, Lesson 1: Using Decimals in a Shopping Context

1. Mai had \$14.50. She spent \$4.35 at the snack bar and \$5.25 at the arcade. What is the exact amount of money Mai has left?

- A. \$9.60
- B. \$10.60
- C. \$4.90**
- D. \$5.90

$$\begin{array}{r}
 14.50 \text{ had} \\
 - 9.60 \text{ spent} \\
 \hline
 4.90
 \end{array}$$

$$\begin{array}{r}
 \text{Spent} \\
 4.35 \\
 5.25 \\
 \hline
 9.60
 \end{array}$$

2. A large cheese pizza costs \$7.50. Diego has \$40 to spend on pizzas. How many large cheese pizzas can he afford? Explain or show your reasoning.

Division  $\frac{40}{7.50}$  whole pizzas

$$\begin{array}{r}
 5 \\
 7.50 \overline{)40.00} \\
 \underline{37.50} \\
 2.50
 \end{array}$$

Repeated Addition

$$7.50 + 7.50 + 7.50 + 7.50 + 7.50$$

5 pizza  $\frac{15}{2 \text{ pizza} + 2 \text{ pizza} + 1 \text{ pizza}}$

3. Tickets to a show cost \$5.50 for adults and \$4.25 for students. A family is purchasing 2 adult tickets and 3 student tickets.

a. Estimate the total cost.

$$2(6) + 3(4) \approx 24$$

b. What is the exact cost?

$$2(5.50) + 3(4.25)$$

$$11.00 + 12.75 = 23.75$$

c. If the family pays \$25, what is the exact amount of change they should receive?

$$\begin{array}{r}
 25 \\
 - 23.75 \\
 \hline
 1.25
 \end{array}$$

count up in head \$1.25

4. Chicken costs \$3.20 per pound, and beef costs \$4.59 per pound. Answer each question and show your reasoning.

a. What is the exact cost of 3 pounds of chicken?

$$\begin{array}{r}
 3.20 \\
 \times 3 \\
 \hline
 9.60
 \end{array}$$

or think  $3(3) + 3(.20)$

b. What is the exact cost of 3 pound of beef?

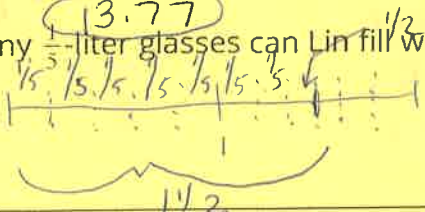
$$\begin{array}{r}
 4.59 \\
 \times 3 \\
 \hline
 13.77
 \end{array}$$

harder to do in head

c. How much more does 3 pounds of beef cost than 3 pounds of chicken?

$$\begin{array}{r}
 13.77 \text{ Beef} \\
 - 9.60 \text{ chix} \\
 \hline
 4.17 \text{ more}
 \end{array}$$

5. a. How many  $\frac{1}{5}$ -liter glasses can Lin fill with a  $1\frac{1}{2}$ -liter bottle of water?



$7\frac{1}{2}$  from diagram OR

$$1\frac{1}{2} \div \frac{1}{5}$$

$$\frac{3}{2} \div \frac{1}{5} = \frac{3}{2} \times \frac{5}{1} = \frac{15}{2} = 7\frac{1}{2}$$

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b. How many  $1\frac{1}{2}$ -liter bottles of water does it take to fill a 16-liter jug?

(from Unit 4, Lesson 16)

$$16 \div 1\frac{1}{2}$$

$$\frac{16}{1} \div \frac{3}{2} = \frac{16}{1} \times \frac{2}{3} = \frac{32}{3} = 10\frac{2}{3} \text{ bottles}$$

6. Use the grid to complete this problem.

Challenge:  $\frac{1}{2} \cdot b \cdot h$   
 $? = h$

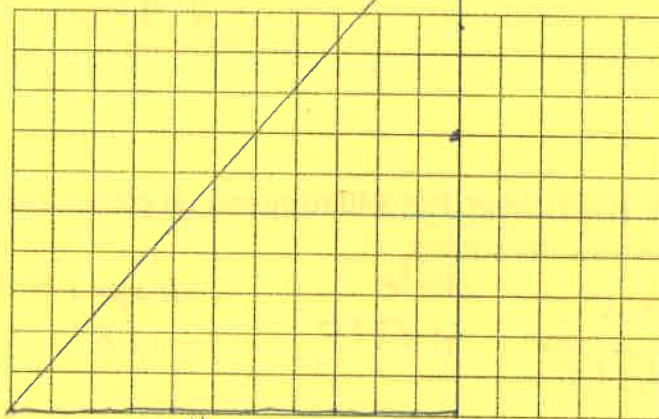
$$19\frac{1}{4} = \frac{1}{2} \times 5\frac{1}{2} \times ?$$

$$19\frac{1}{4} = \frac{1}{2} \times \frac{11}{2} \times ?$$

$$19\frac{1}{4} = \frac{11}{4} \times ?$$

$$\frac{77}{4} \div \frac{11}{4} = 7 \text{ units}$$

is height



only drew one

Let the side length of each small square on the grid represent  $\frac{1}{2}$  unit. Draw two different triangles, each with base  $5\frac{1}{2}$  units and area  $19\frac{1}{4}$  units<sup>2</sup>. Why does each of your triangles have area  $19\frac{1}{4}$  units<sup>2</sup>? Explain or show your reasoning.

I can make any triangle with base  $5\frac{1}{2}$  ( $\frac{11}{2}$ ) and height 7 units and it will have an area of  $19\frac{1}{4}$  un<sup>2</sup>.

(from Unit 4, Lesson 14)

7. Find each quotient.

a.  $\frac{5}{6} \div \frac{1}{6}$

(from Unit 4, Lesson 10)

CD already  $\frac{5}{6} \div \frac{1}{6} = 5$

OR  $\frac{5}{6} \times \frac{6}{1} = \frac{30}{6} = 5$

b.  $1\frac{1}{6} \div \frac{1}{12}$

CD  $\frac{7}{6} \div \frac{1}{12} = 14$

OR  $\frac{7}{6} \times \frac{12}{1} = \frac{84}{6} = 14$

c.  $\frac{10}{6} \div \frac{1}{24}$

CD  $\frac{10}{6} \div \frac{1}{24} = 40$

OR  $\frac{10}{6} \times \frac{24}{1} = \frac{240}{6} = 40$