KEY

NAME   DATE   PERIOD

Unit 5, Lesson 1
Practice Problems

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

Handwritten work:

spent
4.35
5.25
9.60

Had 14.50
− 9.60 spent
4.90

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.

Handwritten work:

$$7 \times 50 \overline{)40.00}$$ → 5 Whole

or   7.50 > 15 > 30
     27.50
     37.50 > 15
     47.50   7.5   37.50
     57.50

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. $11 + 12 = 23$

   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?

   25.00
   − 23.75
   $1.25   or count up

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? $\times \frac{3.20}{9.60}$ or $+ 3(.2)$ 9.60

   b. What is the exact cost of 3 pound of beef?
   $4.59 \times 3 = 13.77$

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

   13.77
   − 9.60
   4.17 more

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$\frac{7\frac{2}{10}}{}$ $\frac{1\frac{5}{10}}{}$
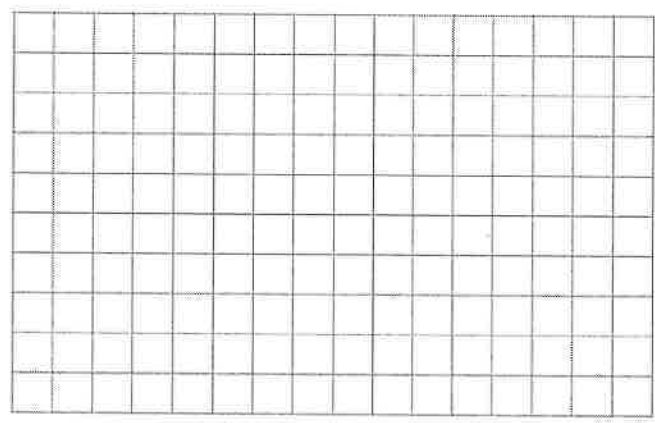
$\frac{15}{10} \div \frac{2}{10} = \frac{15}{2} = \boxed{7\frac{1}{2}}$

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

or

$\frac{3}{2} \div \frac{1}{5}$

K C F

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

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

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

$\frac{16}{1} \div \frac{3}{2}$

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

6. Use the grid to complete this problem.

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^2. Why does each of your triangles have area $19\frac{1}{4}$ units^2? Explain or show your reasoning. *because they have both to have a height of 7 un*

7. Find each quotient.

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

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

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

CD so

$5 \div 1 = \boxed{5}$

or

$\frac{5}{6} \times \frac{6}{1} = \boxed{\frac{5}{1}}$

$\frac{7}{6} \div \frac{1}{12}$

$\frac{7}{16} \times \frac{\overset{2}{\cancel{12}}}{1} = \boxed{14}$

OR

$\frac{14}{12} \div \frac{1}{12} = \boxed{14}$

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

$\frac{10}{16} \times \frac{\overset{4}{\cancel{24}}}{1} = \boxed{40}$

OR

$\frac{40}{24} \div \frac{1}{24} = \boxed{40}$