

Name:

ANSWERS!

Period:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

## Part 2-4 Classwork

Calculators OK

Solve for  $x$ .

Question 01

Water is being pumped to fill a pool at a constant rate. After 7 minutes, 12 gallons were pumped into the pool. How long will it take for 30 gallons to be pumped into the pool?

$$\frac{\text{gallons}}{\text{minute}} \quad \frac{12}{7} = \frac{30}{x} \quad \text{OR} \quad \frac{\text{minutes}}{\text{gallons}} \quad \frac{7}{12} = \frac{x}{30}$$

Question 02

$$7 \times 30 \div 12 = 17.5$$

A car is moving at a constant rate on the highway. The car traveled 8 miles in 5 minutes. How far will the car have traveled after 17.5 minutes?

$$\frac{\text{miles}}{\text{min}} \quad \frac{8}{5} = \frac{x}{17.5}$$

Question 03

$$8 \times 17.5 \div 5 = 28$$

A store sells apples at a constant price per pound. A customer bought 2.5 pounds of apples for \$3. How many pounds of apples could you buy for \$6?

$$\frac{\$}{\text{pounds}} \quad \frac{3}{2.5} = \frac{6}{x} \quad 2.5 \times 6 \div 3 = 5$$

Question 04

A store sells oranges at a constant price per pound. A customer bought 4 pounds of oranges for \$7. How much would 5 pounds of oranges cost?

$$\frac{\$}{\text{pounds}} \quad \frac{7}{4} = \frac{\quad}{5} \quad 7 \times 5 \div 4 = \textcircled{8.75}$$

Question 05

A work crew is paving a stretch of road at a constant rate. 12 miles were paved in 3 hours. How many miles will be paved in 4.5 hours?

$$\frac{\text{miles}}{\text{hours}} \quad \frac{12}{3} = \frac{\quad}{4.5} \quad 12 \times 4.5 \div 3 = \textcircled{18}$$

Question 06

A van is moving at a constant rate on the highway. The van traveled 5 miles in 4 minutes. How long will it take for the van to travel 22.5 miles?

$$\frac{\text{miles}}{\text{min}} \quad \frac{5}{4} = \frac{22.5}{\quad} \quad 4 \times 22.5 \div 5 = \textcircled{18}$$

Question 07

A store sells mangos at a constant price per pound. A customer bought 2 pounds of mangos for \$5. How much would 4.5 pounds of mangos cost?

$$\frac{\$}{\text{pounds}} \quad \frac{5}{2} = \frac{\quad}{4.5} \quad 5 \times 4.5 \div 2 = \textcircled{11.25}$$