

At a store, you can purchase 3 fidgets for \$8.94. How much would it cost to purchase 15 fidgets?

Ratios

: price

$$\frac{3}{3} : \frac{\$8.94}{3}$$

1 : \$2.98 ^{unit price}

$$15 : \boxed{\$44.70}$$

unit price

$$\begin{array}{r} 2.98 \\ 3 \overline{) 8.94} \\ \underline{-6} \\ 29 \\ \underline{-27} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$\begin{array}{r} 44 \\ 2.98 \\ 3 \overline{) 8.94} \\ \underline{-6} \\ 29 \\ \underline{-27} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$\begin{array}{r} 44 \\ 2.98 \\ \times 15 \\ \hline 1490 \\ + 2980 \leftarrow \\ \hline 44.70 \end{array}$$

Proportions

$$\left\{ \begin{array}{l} \$8.94 \\ 3 \end{array} \right\} = \frac{\boxed{}}{15}$$

$$\frac{(\$8.94)15}{3} = \boxed{\$44.70}$$

A store sold 72 mannequin arms "a" if the ratio

of mannequin arms "a" to Bags of toenail clippings "b" was 9:8,

What is the number of Botc sold?

"ma" "botc"

$$8^* \left\{ \begin{array}{l} 9 : 8 \\ \downarrow \\ 72 : \boxed{64} \end{array} \right\}^* 8$$

$$\frac{\text{"ma"} \boxed{9}}{\text{"botc"} \boxed{8}} = 72$$

$$\frac{(8)(72)}{9} = \boxed{64}$$

A store sold 70 ^{trash cans filled with mac & cheese and a ketchup} (If the ratio of $\frac{\text{trash cans}}{a}$ to $\frac{\text{twizzlers}}{b}$ was 7:12,

what is the number of $\frac{\text{twizzlers}}{b}$ sold?

trash cans : twizzlers

$$10 * \left(\begin{array}{l} 7 : 12 \\ \swarrow \quad \searrow \\ 70 \quad 120 \end{array} \right) * 10$$

Reduce the ratio

$$\frac{16}{8} : \frac{56}{8} \rightarrow \boxed{2 : 7}$$

$$\frac{21}{7} : \frac{56}{7} \quad 5 + 6 = 11$$

$$\boxed{3 : 8}$$

Reduce.

$$\frac{63}{9} : \frac{90}{9}$$

1.) $\frac{63}{3} : \frac{90}{3}$

$$\frac{21}{3} : \frac{30}{3}$$

$$\boxed{7:10}$$

2.) $\frac{20}{5} : \frac{45}{5}$

$$\boxed{4:9}$$

3.) $\frac{70}{10} : \frac{30}{10}$

$$\boxed{7:3}$$

4.) $\frac{6}{3} : \frac{15}{3}$

$$\boxed{2:5}$$

5.) $\frac{28}{7} : \frac{49}{7}$

$$\boxed{4:7}$$

6.) $\frac{30}{6} : \frac{54}{6}$

$$\boxed{5:9}$$

English Measurement

$$3 \text{ feet} = 1 \text{ yard}$$

Feet	Yards
24	$24 \div 3 = 8$

$$\boxed{36} \leftarrow 3 \times 12$$

centimeter millimeter

$$1 \text{ cm} = 10 \text{ mm}$$

centi $\frac{1}{100}$

century \rightarrow 100 years
cents \rightarrow 100 cents

milli \rightarrow $\frac{1}{1000}$

million \rightarrow thousand thousand

millennium \rightarrow 1000 years

millimeters

centimeters

10 mm : 1 cm

$$\boxed{80} \xleftarrow{10 * 8}$$

$$50 \xrightarrow{\div 10} \boxed{5}$$

$$120 \xrightarrow{\div 10} \boxed{12}$$

$$200 \xleftarrow{10 * 20}$$

1 meter : 100 cm

meter centimeter

$$8 \xrightarrow{* 100} \boxed{800}$$

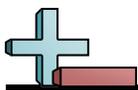
$$60 \xleftarrow{100 \div 6000}$$

meter kilometer

$$\boxed{6000} \xleftarrow{1000 * 6}$$

$$18,000 \xrightarrow{\quad} \boxed{18}$$

1 kilometer = 1,000 meters



Use the double numberline to solve the problems.

- 1) A movie theater put 4 cups of oil for every 2 batches of popcorn they made. After they had made 6 batches of popcorn, how much oil would they have used?

popcorn

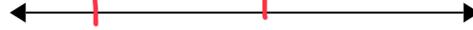


oil



- 2) A store had a sale where you could get 6 bags of cashews for \$8. If you wanted to buy 60 bags, how much would it cost?

cashews



price



- 3) In a video game for every 7 enemies defeat, you earned 6 points. If you defeated 14 enemies, how many points would you have earned?

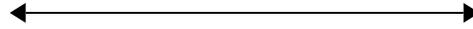
enemies



points

- 4) On her MP3 player for every 8 pop song Maria had she also had 10 country song. If she has 24 pop songs on her MP3 player, how many country songs does she have?

pop



country

- 5) A builder could get 3 sheets of sheetrock for \$2. If he bought 15 sheets, how much money would he have spent?

sheetrock



price

- 6) A box of candy had 8 cherry pieces for every 3 lemon pieces. If the box had 30 lemon pieces, how many cherry pieces would there be?

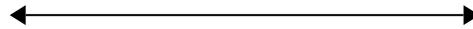
lemon



cherry

- 7) The ratio of boys to girls at the park was 3 to 2. If there were 21 boys, how many girls were there?

boys



girls

- 8) For every 7 cans Luke collected for recycling he earned 10 cents. After he collected 21 cans, how much money would he have earned?

cans



money

Answers1. 12 cups o' oil2. \$80

3. _____

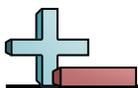
4. _____

5. _____

6. _____

7. _____

8. _____



Solve each problem.

Answers

- 1) On *Monday* the price for bottled water was 5 bottles for \$10.90. On *Saturday* the price was 4 bottles for \$8.56. Which day had the higher unit price?

Monday unit price Saturday unit price
 $5 : \$10.90$ $1 : \$2.18$ $4 : 8.56$ $1 : \$2.14$

1. Saturday → \$2.14

- 2) At a candy store you could get 3 giant lollipops for \$8.94. How much would it cost to buy 6 lollipops?

2. _____

- 3) At a farming supply store 7 pounds of seed cost \$185.08. If a farmer needed 3 pounds of seeds, how much would it cost him?

3. _____

- 4) In *September* a clothing store had a sale where you could get 7 scarves for \$30.10. In *October* the price was changed to 3 scarves for \$12.99. On which month did a scarf cost the most?

4. _____

- 5) A store had 3 *blue* chairs for \$39.96 or 7 *red* chairs for \$93.59. Which color chair has a lower unit price?

5. _____

- 6) An ice company charged \$1.40 for 5 bags of ice. If a convenience store bought 7 bags of ice, how much would it have cost them?

6. _____

- 7) At the *toy store* you could get 3 board games for \$26.79. *Online* the price for 4 board games is \$35.92. Which place has the highest price for a board game?

7. _____

- 8) At a restaurant 4 *hotdogs* cost \$9.68 and 5 *hamburgers* cost \$11.75. Which food has the lower unit price?

8. _____

- 9) A shoe store was having a back to school sale where you could buy 7 pairs of shoes for \$71.54. If a large family decided to buy 4 pairs of shoes, how much would it cost them?

9. _____

- 10) A video game store was getting rid of old games, selling them 7 for \$134.19. If they sold 5 games, how much money would they have made?

10. _____