

TH-MF Math Fundamentals 2/24

For every  $\frac{8}{\text{unicorn with handlebar mustache}}$  sold, a store sells  $\frac{12}{\text{bedazzled glasses}}$ . What is the ratio of  $\frac{\text{unicorns}}{\text{glasses}}$ .

$$\begin{array}{ccc} a & \downarrow & b \\ \downarrow & & \\ 8 & : & 12 \\ \hline 4 & & 4 \end{array}$$

2:3

For every  $\frac{10}{\text{truckdriver Flatlent offers}}$  sold, a store sells  $\frac{18}{\text{My Little ponies Big Wheel}}$ . What is the ratio of  $\frac{\text{offer}}{\text{Big Wheel}}$ .

$$\begin{array}{ccc} a & \downarrow & b \\ \downarrow & & \\ 10 & : & 18 \\ \hline 5 & & 9 \end{array}$$

5:9

1.) 8 hours to drive 448 miles

$$\frac{8}{8} : \frac{448}{8} \quad 1 : 56 \quad \text{Ratio}$$
$$56 : 1$$

Rate

$$56 \text{ miles/hr}$$

2.) 7 minutes to type 805 words

$$\frac{7}{7} : \frac{805}{7} \quad 1 : 115 \quad \text{Ratio}$$
$$115 : 1$$

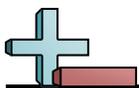
Ratio

$$115 \text{ words/min}$$

3.) 49 brownies took  
147 cups of fudge

$$\frac{49}{49} : \frac{147}{49} \quad \text{Ratio}$$
$$1 : 3$$

3 cups / brownie

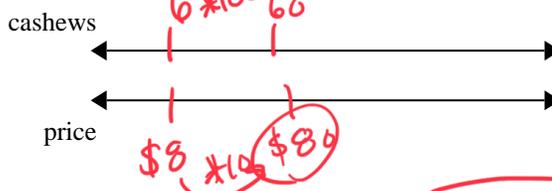


Use the double numberline to solve the problems.

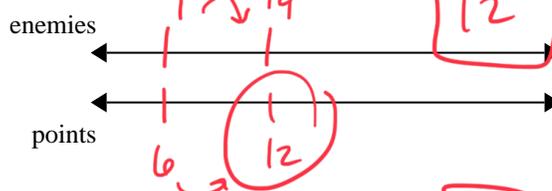
- 1) A movie theater put 4 cups of oil for every 2 batches of popcorn they made. After they had made 6 batches of popcorn, how much oil would they have used?



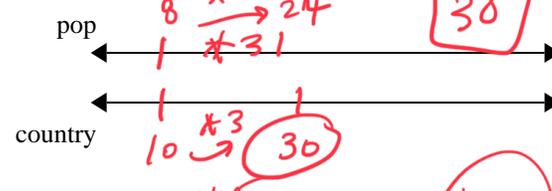
- 2) A store had a sale where you could get 6 bags of cashews for \$8. If you wanted to buy 60 bags, how much would it cost?



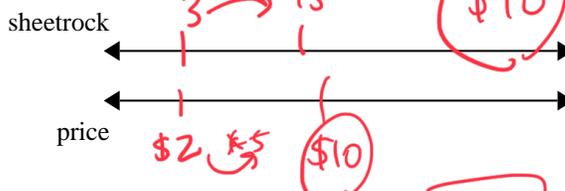
- 3) In a video game for every 7 enemies defeat, you earned 6 points. If you defeated 14 enemies, how many points would you have earned?



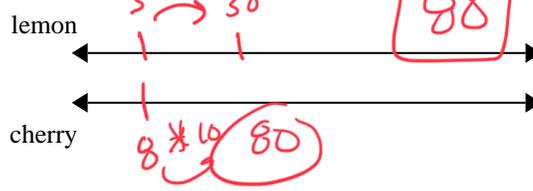
- 4) On her MP3 player for every 8 pop song Maria had she also had 10 country song. If she has 24 pop songs on her MP3 player, how many country songs does she have?



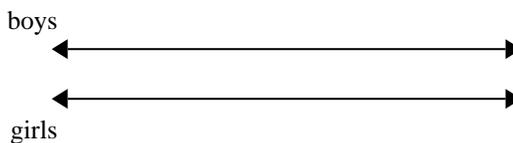
- 5) A builder could get 3 sheets of sheetrock for \$2. If he bought 15 sheets, how much money would he have spent?



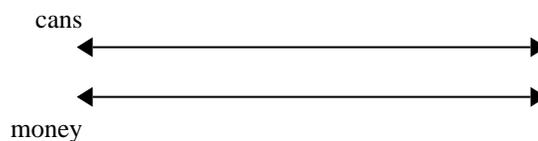
- 6) A box of candy had 8 cherry pieces for every 3 lemon pieces. If the box had 30 lemon pieces, how many cherry pieces would there be?



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



- 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?

Answers

1. 12 cups of oil
2. \$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?

1. \_\_\_\_\_

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

2. \_\_\_\_\_

$3 \xrightarrow{\times 2} 6$   
 $\$8.94 \xrightarrow{\times 2} \boxed{\$17.88}$

3. \_\_\_\_\_

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?

4. \_\_\_\_\_

unit price  $\frac{185.08}{7} = \$26.44$  / pound  $\$26.44 \times 3 = \boxed{\$79.32}$  3 pounds

5. \_\_\_\_\_

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?

7. \_\_\_\_\_

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?

8. \_\_\_\_\_

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?

9. \_\_\_\_\_

$\frac{\$1.40}{5} = \$0.28$  / bag 7 bags  
 $0.28 \times 7 = \boxed{\$1.96}$

10. \_\_\_\_\_

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?

toy store  $\frac{\$26.79}{3} = \boxed{8.93}$  online store  $\frac{\$35.92}{4} = \boxed{\$8.98}$  toy store better

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

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?

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?



Reduce each ratio to its lowest form.

*Reducing*

Ex)  $72 : 56$  9 : 7

1)  $16 : 56$  4 : 14

2)  $21 : 56$  3 : 8

3)  $10 : 30$  1 : 3

4)  $63 : 90$  7 : 10

5)  $20 : 5$  4 : 1

6)  $72 : 9$  8 : 1

7)  $20 : 45$  4 : 9

8)  $15 : 50$  3 : 10

9)  $28 : 49$  \_\_\_\_\_

10)  $10 : 20$  \_\_\_\_\_

11)  $2 : 20$  \_\_\_\_\_

12)  $10 : 50$  \_\_\_\_\_

13)  $36 : 4$  \_\_\_\_\_

14)  $70 : 30$  \_\_\_\_\_

15)  $14 : 21$  \_\_\_\_\_

16)  $6 : 15$  \_\_\_\_\_

17)  $20 : 15$  \_\_\_\_\_

18)  $50 : 40$  \_\_\_\_\_

19)  $63 : 45$  \_\_\_\_\_

20)  $30 : 54$  \_\_\_\_\_

Answers

Ex. 9 : 7

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_