

RATIO & PROPORTION 1

1. Write as ratios:

a. 6 nickels to 25 quarters

b. 3 hits out of 8 times at bat

2. Reduce these ratios to lowest terms:

a. $\frac{13}{52}$

b. 9:12:6

c. 85:17

3. State whether the following form proportions:

a. 3:4 and 16:24

b. $\frac{55}{11}$ and $\frac{13}{26}$

4. Find the value of the variable in the following proportions:

a. $7:13 = x:52$

b. $c:4 = 16:2$

c. $\frac{15.5}{d} = \frac{12}{576}$

d. $7:15 = x:45$

e. $\frac{9}{21} = \frac{d}{7}$

5. A friend has asked you to make a punch for a party. Your recipe used 2 cans of pineapple juice to 3 cans of orange juice to 4 cans of soda. You need to increase the recipe $2\frac{1}{2}$ times. How many cans of pineapple juice, orange juice and soda do you need?

ANSWER KEY

1. a. 6:125 b. 3:8

2. a. $\frac{1}{4}$ b. 3:4:2 c. 5:1

3. a. no b. no

4. a. 28 b. 32 c. 744 d. 21 e. 3

5. 5 cans pineapple juice, 7.5 cans orange juice, 10 cans soda

Source: Government of BC used with permission.