

REVIEW FOE ASSESSMENT

1. Complete the following chart:

Percent	Decimal	Fraction
131%		
	0.092	
		$\frac{18}{1000}$

2. Find the following using mental math strategies. **Show your work:**

10% of 72.8

125% of 24

400% of 12

11% of 46

challenge
11.5% of 30

3. Solve and show your work. (calculator)

What is 55.5% of 65?

10 is 14.5% of what number?

18 is 49.3% of what number?

If I bought a shirts for \$14.85 that was on sale at 15.5% off. How much would I pay with tax?(Tax in Maine is 5.5%.)

There were 110 students at the concert last summer. 135.8% of them were from Perth-Andover. How many students does this represents how many students?

17 out of the 180 students at school today wore shorts. This represents what percentage?

Review – ratios and rates

Appropriate:

1. The ratio of dogs to cats is 3:7 at the local animal shelter. Express this ratio in fraction format.
2. A carbohydrate is composed of 6 parts carbon, 12 parts hydrogen and parts oxygen. Express this as a ratio.
3. To make kool-aid 1 part of sugar is mixed with 8 parts of water. What fraction of **kool-aid** is sugar? Can you write this as a percent?

4.

	Rate or Ratio?	Write it symbolically
(a) Jack runs 4 km to the store in 30 minutes.		
(b) During phys. ed. class, Johnny runs 22 laps and Mary runs 15 laps.		
(c) During phys. ed. class, Jackie runs 30 laps in 8 minutes.		

5. During the Olympics the gold medal speed skater finished 1000 metres distance in 78 seconds. How would his speed be recorded? Write as a unit rate?
6. On Nathan's science test, the ratio of correct answers to total questions was 3:5. Express his score as a percentage.

7. The ratio of boys to students at the school dance was $\frac{4}{11}$. What does the “11” represent?
8. Michelle bikes 20 kilometres in 2 hours. Express her speed in kilometres per hour?
9. Bruce can barbeque 12 burgers in 8 minutes. At this rate, how long will it take him to cook 36 burgers?
10. 25% of the class wears glasses. If there are 24 students in the class, how many students wear glasses?
11. The ratio of boys to girls on the “green team” is 2:3. Which must be true?
- There are 3 times as many girls as boys.
 - There are twice as many boys as girls.
 - The number of people on the team is a multiple of 3.
 - The number of people on the team is a multiple of 5.

Mid Range:

1. Student council needs to order pizza for their graduation party. Each pizza has twelve pieces. One third of the sixty graduates want pepperoni pizza; the rest want cheese pizza. What is the ratio of pepperoni pizza to cheese pizza that needs to be ordered?
- 1:3 1:2 3:1 2:1
2. A 500 mL can of paint contains 12 parts of blue, 10 parts of yellow, and 4 parts of red paint. Which ratio represents this colour combination?
- 4:10:12 5:6:2 6:5:2 26:500

3. A punch has a ratio of 3 parts orange juice to 2 parts pineapple juice. What fraction of the punch is orange juice?

$$\frac{2}{3}$$

$$\frac{3}{2}$$

$$\frac{2}{5}$$

$$\frac{3}{5}$$

4. A rocket with a mass of 3000 tonnes and a fuel capacity of 2000 kL travels 120 km in 10 seconds. Which rate represents its speed?

a. 3000 tonnes / 2000 kL

b. 2000 kL / 120 km

c. 120 km / 10 seconds

d. 2000 kL / 10 seconds

5. A recipe uses 450 mg of flour for every 90 mg of sugar. How much flour would be needed when 450 mg of sugar is used? Show how you find out.

6. In our Trail mix, the ratio of chocolate chips to peanuts is 3:5 and the ratio of peanuts to raisins is 4:2. If the bag contains 120 grams of chocolate chips, how many grams of raisins does it contain?

a. 100 g

b. 120 g

c. 200 g

d. 420 g

7. Mme. Dionne can correct papers at a rate of 10 papers/ hr. How long will it take her to correct 77 papers? How many minutes does it take to correct 20 papers?

8. I have a kennel for cats and dogs only. I want to always have 2 cats to every 3 dogs at my kennel. How many dogs would I have if I had 30 animals.

9. Write a ratio problem where a total is given and you have to find one term.