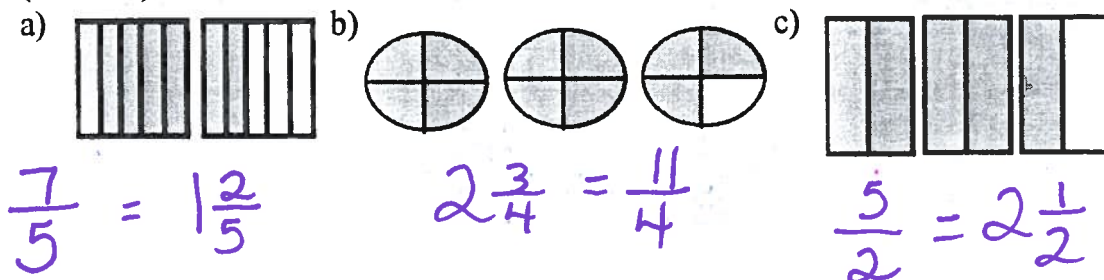


Name: Key
 Class: _____

Show What You Know Assessment – Part C

1. Use a mixed number and an improper fraction to describe each picture.
 (6 marks)



2. Jolene is making a traditional ham dish for Le Banquet de la Cabane a Sucre. She has a $\frac{1}{2}$ cup measuring cup. How many times will Jolene have to fill it to measure $3\frac{1}{2}$ cups of maple syrup? Draw a picture. (3 marks)



7 times

3. Write each mixed number as an improper fraction. (4 marks)

a) $3\frac{1}{4} = \frac{13}{4}$ b) $7\frac{2}{3} = \frac{23}{3}$ c) $4\frac{1}{2} = \frac{9}{2}$ d) $2\frac{7}{8} = \frac{23}{8}$

$4 \times 3 + 1 = 13$ $3 \times 7 + 2 = 23$ $2 \times 4 + 1 = 9$ $8 \times 2 + 7 = 23$

4. Write each improper fraction as a mixed number. (4 marks)

a) $\frac{14}{5} = 2\frac{4}{5}$ b) $\frac{17}{8} = 2\frac{1}{8}$ c) $\frac{11}{3} = 3\frac{2}{3}$ d) $\frac{15}{6} = 2\frac{3}{6}$

$5 \times 2 = 10 + 4$ $8 \times 2 = 16 + 1$ $3 \times 3 = 9 + 2 = 11$ $2 \times 6 = 12 + 3 = 15$

Name: _____
 Class: _____

5. A class ordered 12-slice pizzas for lunch. The students ate 40 slices.
 (4 marks)

a) What is the least number of pizzas the class could have ordered?

4 pizzas $12 \times 4 = 48 \text{ slices}$ $12 \times 3 = 36 \text{ slices}$

b) Write an improper fraction and a mixed number for the number of pizzas the students ate.

$$3 \frac{4}{12} = \frac{40}{12}$$

c) Suppose the least number of pizzas were ordered. Write a fraction for how many pizzas were left over.

$$\frac{8}{12}$$

6. Draw a picture to represent each fraction below. (10 marks)

a) $\frac{14}{5}$



b) $\frac{17}{8}$



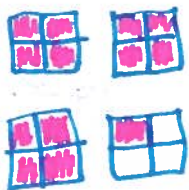
c) $\frac{11}{3}$



d) $\frac{15}{6}$



e) $3 \frac{1}{4}$



f) $7 \frac{2}{3}$



g) $4 \frac{1}{2}$



h) $2 \frac{7}{8}$



Order the fractions from a to h from least to greatest.

$$\frac{17}{8}, \frac{15}{6}, \frac{14}{5}, 2 \frac{7}{8}, 3 \frac{1}{4}, \frac{11}{3}, 4 \frac{1}{2}, 7 \frac{2}{3}$$

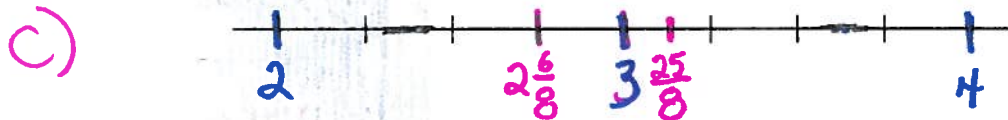
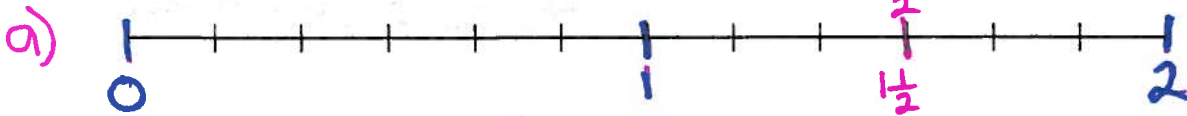
Name: _____
Class: _____

7. Place each set of numbers on a number line.

a) $\frac{3}{2}, 1\frac{1}{2}$

b) $\frac{8}{5}, 1\frac{7}{10}$ $1\frac{3}{5} = 1\frac{6}{10}$

c) $\frac{25}{8}, 2\frac{3}{4} = 2\frac{6}{8}$ $\frac{25}{8} = 3\frac{1}{8}$



8. In a punch, 2 cups of orange juice are mixed with 3 cups of ginger ale.

a) Draw a diagram of this ratio.

$2:3$



- OJ
- Ginger ale

b) How much ginger ale is needed for 10 cups of orange juice?

$2 \text{ OJ} \times 5 = 10 \text{ cups OJ}$

$3 \text{ Gingerale} \times 5 = 15 \text{ cups Ginger Ale}$

c) How much orange juice is needed for 21 cups of ginger ale?

$2 \text{ OJ} \times 7 = 14 \text{ cups OJ}$

$3 \text{ Gingerale} \times 7 = 21 \text{ cups Gingerale}$

9. Write as many ratios as you can for the buttons.



$12 \text{ large} : 8 \text{ small}$

$12 \text{ large} : 20 \text{ all buttons}$

$8 \text{ small} : 20 \text{ all buttons}$

$8 \text{ small} : 12 \text{ large}$

$20 \text{ all} : 8 \text{ small}$

$20 \text{ all} : 12 \text{ large}$

Name: _____

Class: _____

- b) Suppose you doubled the number of each colour of buttons. What would the ratio 40:16 describe?

$$20 \text{ all} : 8 \text{ small} \\ \times 2$$

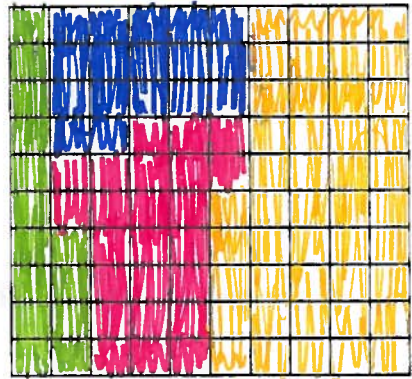
$$40 \text{ all} : 16 \text{ small}$$

10. What percent of buttons from question 9 are smaller?

$$\frac{8}{20} = 0.4 = 40\%$$

11. Use a hundredth grid.

- a) Colour the grid so 14% is green, 45% is yellow, 17% is blue, and the rest is red.



- b) Write a fraction with hundredths and a decimal to describe each colour of the grid.

$$\frac{17}{100} = 0.17 = 17\%$$

$$\frac{45}{100} = 0.45 = 45\%$$

$$\frac{14}{100} = 0.14 = 14\%$$

$$\frac{24}{100} = 0.24 = 24\%$$

- c) What percent of the grid is red?

$$24\%$$

12. Conner got 23 out of 25 on a spelling test. Ross got 88% on the test. Whose mark was greater? Show your work.

$$\frac{23}{25} = 0.92$$

$$0.92 \times 100 = 92\%$$

Conner's score was greater than 88%