Name:_____

Class: _____

Grade 8 Unit Assessment - Ratios, Rates, and Proportional Reasoning

Outcome N5	Solve problems that involve ratios, rates, and proportional	reasoning
1) Write the ratio 8 to 1	5 in another way:	
8 to 15 =	.:	1
2) In the word BALLOO	NS, fill in the ratio of vowels to consonants.	
Reminders - a vowe - a conse	el would be a, e, i, o, u onant would be everything else	
	vowels : consonants	
-	:	1
3) Joey earns \$67.50 f	or 6 hours of work, what is Joey's unit rate of pay?	
Unit rate of pay =	\$ earned ÷ # hours	
=	÷	
=		1
 In a math class the r many boys are there 	ratio of boys to girls is 15 to 8. If there are 16 girls in class, how ?	
15 boys to 8 girls	a) 8 x 🔲 = 16 What number is the square?	
$\downarrow \qquad \downarrow$	b) 15 x 🔲 =	1
to 16 girls	S	
		1

- 5) Use the coins to help you answer the following questions.
 - a) What is the ratio of quarters to dimes?

10¢ \$1.00 10¢ # quarters : # dimes 10¢ \$1.00 25¢ 1 10¢ \$1.00 10¢ \$1.00 10¢ 25¢ b) What is the ratio of loonies: total coins? 10¢ # loonies : # total coins _____:____ 1 c) What fraction of the coins are quarters? <u># quarters</u> = # total coins 1 d) What is the ratio of loonies to dimes to guarters? # loonies : # dimes : # quarters _____:____:_____: 1 e) What could the ratio 7:5 represent? 7:5 What number could the 7 represent? : What number could the 5 represent? 1 # of ______: # of _____

\$1.00

6) Eve is shopping for soup. Her favourite brands are on sale. Brand A is priced \$8.96 for 8 cans. Brand B is priced \$11.89 for 12 cans. Determine the better buy. a) Unit price for Brand A = \$ for Brand A \div # cans =_____÷____ 1 = b) Unit price for Brand B = $for Brand B \div # cans$ =_____÷____ 1 = c) Which is the better buy, Brand A or Brand B? Why? 1 7) Solve each proportion statement: b) $\frac{?}{16} = \frac{3}{2}$ a) $\frac{?}{10} = \frac{9}{15}$ $? = \frac{9 \times 10}{15}$? = $\xrightarrow{\times}$ Fill in the missing numbers 2 first (like in 7a). ? = ? =

Connecting math to real life!!!

Where can you see yourself using what you learned about ratios, rates, and/or proportions in

your daily life? (Besides "I'll probably need it for grade 9 math next year" 😎)

Score for Ratios, Rates, and Proportional Reasoning:

N5 Solve problems that involve ratios, rates, and proportional reasoning