



## Unit Project: Proportional Reasoning and Currency

Suggested time: 75 min

### **What's important in this lesson:**

This is the culminating activity for Unit 2.

### **Complete these steps:**

1. Complete the crossword.
2. Complete the currency conversion portion of the assignment.
3. Get a newspaper to complete the discount/tax portion of the project.
4. Complete the True/False questions.

### **Hand-in the following to your teacher:**

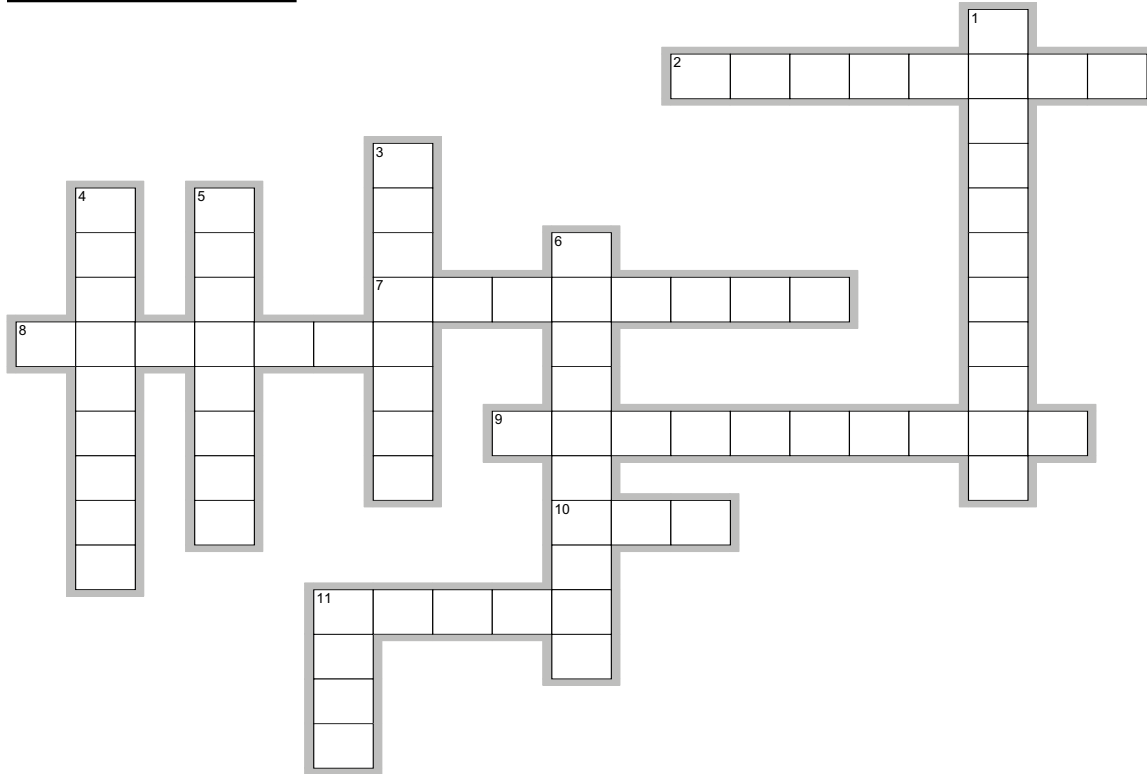
1. "Unit 2, Proportional Reasoning Project"

### **Questions for the teacher:**

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**Part A: Crossword**



Created with EclipseCrossword — [www.eclipsecrossword.com](http://www.eclipsecrossword.com)

**Across**

2. money that is paid for the use of money, usually according to a predetermined percent
7. money - bills and coins
8. the number of parts per 100; the numerator of a fraction with denominator 100
9. a fee or payment given to a salesperson, usually a specified percent of the person's sales
10. money added to a total purchase and is collected for the government
11. a comparison of two or more quantities with the same units

**Down**

1. the term below the line in a fraction
3. an indicated quotient of two quantities
4. the term above the line in a fraction
5. an amount of money deducted from the overall price, usually noted as a percent
6. a statement that two ratios are equal
11. a comparison of two quantities with different units

<i>ratio</i>	<i>tax</i>	<i>interest</i>	<i>numerator</i>
<i>commission</i>	<i>improper</i>	<i>denominator</i>	<i>percent</i>
<i>discount</i>	<i>proportion</i>	<i>rate</i>	<i>fraction</i>
<i>markup</i>	<i>currency</i>	<i>unit</i>	<i>quantity</i>



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**Part C: Discount/Tax**

Obtain a newspaper.



Locate a flyer or advertisement that mentions a sale.

1. Clip a discount that is stated as a percent. (Paste here)



2. Find a picture of an item that is on sale.  
(shoes, toys, sports equipment, etc.)





Calculate the original price including tax.

Calculate the sale price with tax.

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3. Find a picture of another item that is on sale.	
	
Calculate the original price including tax.	
Calculate the sale price with tax.	
4. Find a picture of another item that is on sale.	
	
Calculate the original price including tax.	
Calculate the sale price with tax.	

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**Part D: Ratios, rates and proportions**

Are these statements true or false?	True	False
3:5 and 12:20 are equal ratios.		
$\frac{4}{5} = \frac{16}{18}$		
6 for \$0.85 is better than 8 for \$1.00		
7 miles in 10 minutes = 3.5 miles in 5 minutes		
If $\frac{x}{15} = \frac{12}{36}$ , then $x = 3$ .		
$\frac{3}{5} = \frac{6}{10}$ , so $3 \times 6 = 5 \times 10$ .		

(a) A length of pipe is cut in the ratio of 7:4. If the length of the shorter section is 52 cm, what is the length of the other section?

(b) In an aquarium, there are tropical fish and snails in the ratio of 6:2. If there are 42 tropical fish, how many snails are in the aquarium?