

How is currency conversion relevant in the real world?



Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

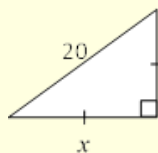
<p>Week 13, Lesson 1</p> <ol style="list-style-type: none"> 1. Warm Up 2. Currency Review 3. ICA 4. Homework 	<p style="color: red; text-align: center;">Currency Review</p> <p>How is currency conversion relevant in the real world?</p> <div style="border: 1px solid black; height: 100px; width: 100%; text-align: center; font-size: 48px; font-weight: bold; color: black;">91</div>
--	--



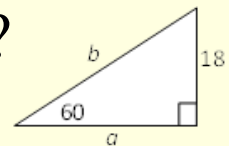
Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up

Warm Up: Graph and identify the type of equation it is.

1) What is the value of x ?



2) What are the values of a and b ?



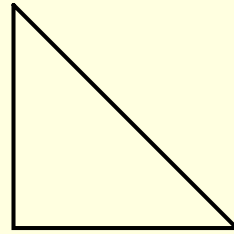
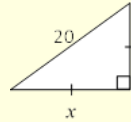
3) Graph the Function

$$y = |x - 2| + 3$$

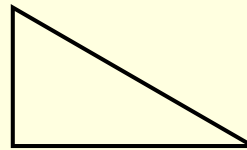
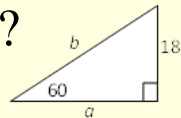
4) What is the point of inflection?

$$y = (3)^{x-5} + 4$$

1) What is the value of x?



2) What are the values of a and b?



3) Graph the Function

$$y = |x - 2| + 3$$

4) What is the point of inflection?

$$y = (3)^{x-5} + 4$$

Currency Conversion

Standard
1.5 b

Does the exchange rate change or stay the same?

In your groups, you guys will take a surprise trip around the world. As you travel, together you guys will use clues to discover where exactly is your location.

You will use the information to eventually figure out how many U.S. dollars you have spent throughout the trip.

Use the following exchange rates for the activity!

EXCHANGE RATES		
Country	Name of Currency	Value to one U.S. Dollar
Australia	Australian dollar	1.71
Cameroon	Cameroon franc	722.02
Canada	Canadian dollar	1.48
China	Chinese renminbi	8.28
Egypt	Egyptian pound	3.5
France	Euro	0.78
Germany	Euro	0.78
Greenland	Danish krone	8.23
Iceland	krona	80.12
Iraq	Iraqi pinar	0.33
Ireland	Irish pound	0.87
Israel	new Israeli shekel	4.08
Japan	Yen	108.45
Kenya	Kenya shilling	75.25
Kuwait	Kuwaiti dinar	0.31
Malaysia	Ringgit	3.8
Mexico	new Mexican peso	9.39
New Zealand	New Zealand dollar	2.19
Norway	Norwegian krone	8.99
Russia	Russian ruble	27.77
Saudi Arabia	Saudi riyal	3.75
South Korea	South Korean won	1114.85
Spain	peseta	183.54
Thailand	baht	40.67
Turkey	Turkish lira	642040
Vietnam	new dong	14098

Example: Today you depart from Toronto Pearson International Airport. You will visit a place that attracts millions of visitors each year who travel there to pay homage to their favorite stars and perhaps even catch a glimpse of a few famous personalities. Arriving in this country, you will have an opportunity to watch a basketball game at the Staples Center. You spent 7051 of this country's currency.

L.A. in U.S. \$7,051

Summary:

ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity

ICA:



- 1) Today you depart from O'Hare Airport in Chicago. Heading South, you will visit a neighboring country. Arriving in this country, you will have an opportunity to visit the ancient Aztec ruins. You spent 5091 of this country's currency. *Mexico*
- 2) Where in the world is Matt Lauer? You can identify with Matt as this morning you take off again. You will visit the Great Pyramid and see this continent's longest river. You spent 4233 of this country's currency. *Egypt*
- 3) Off again this morning, you fly to see a Mercedes Benz factory and the site of 1972 summer Olympics. You spend 1572 of this country's currency. *Germany*
- 4) You take a short trip today. You want to see the City of Lights, specifically the Eiffel Tower. You spend 3103 of this country's currency.
- 5) Today you need to complete your United Nations responsibilities. You fly to this country to search for weapons of mass destruction. You spend 500 of this country's currency.
- 6) You fly to see the Bridge of Continents. This country covers two continents. You also want to see the city which was built by Constantine I. You spend 90,000,000 of this country's currency.
- 7) Today's itinerary takes us to a large country which was our chief rival for many years. You visit the Kremlin and Lenin's tomb. You spend 20,338 of this country's currency.
- 8) You want to see the Forbidden City, the Grand Canal, and the many rice fields in the countryside. You spend 1733 of this country's currency.
- 9) This site of a very difficult "conflict" is the destination for today. You visit the sites where many battles were fought. You spend 500,000 of this country's currency.
- 10) On your way home, you decide to stop in our 50th state for some rest and relaxation at a beautiful resort. You spend 2515 of this country's currency.

Mexico

$$5091 \text{ peso} \left(\frac{2 \text{ USD}}{9.39 \text{ peso}} \right)$$

$$\left(\frac{5091}{9.39} \right) = \$542.17 \text{ USD}$$

Egypt £

$$4233 \text{ ~~Egypt Pound~~} \left(\frac{1 \text{ USD}}{3.5 \text{ ~~Egypt Pound~~}} \right)$$

$$\frac{4233}{3.5} = \underline{1209.42 \text{ USD}}$$

Germany

$$1572 \text{ Euros} \left(\frac{1 \text{ USD}}{0.78 \text{ Euro}} \right)$$

$$\left(\frac{1572}{0.78} \right) = \underline{2015.38 \text{ USD}}$$

What do you have to do in order to convert currency?



Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

<p>Week 13, Lesson 2</p> <ol style="list-style-type: none"> 1. Warm Up 2. Currency Review 2 3. ICA 4. Homework 	<p>Currency Review 2</p> <p>What do you have to do in order to convert currency?</p> <div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> 93 </div>
--	--

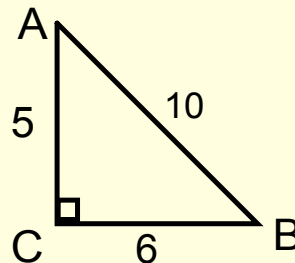
Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up

Warm Up: Graph and identify the type of equation it is.

1) Graph and determine the type of function?

$$y = x^2 - 6x + 5$$

2) What is $\cos B$?



3) Graph the Function

$$y = \frac{3}{2}x - 5$$

4) Identify the Horizontal Asymptote?

$$y = (2)^{x+2} - 4$$

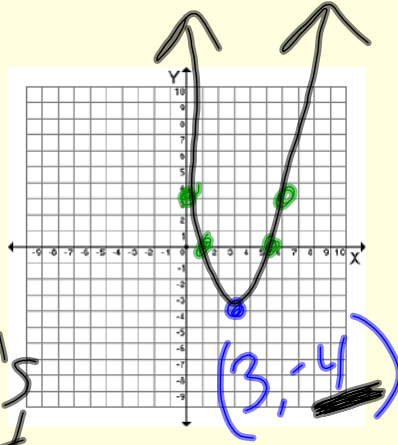


- 1) Graph and determine the type of function.

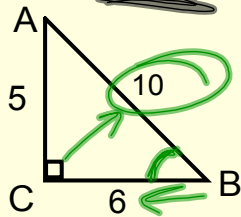
$$y = x^2 - 6x + 5$$

Quadratic

Domain: All real #'s
Range: $y \geq -4$



- 2) What is $\cos B$?



~~Soh Cah Toa~~

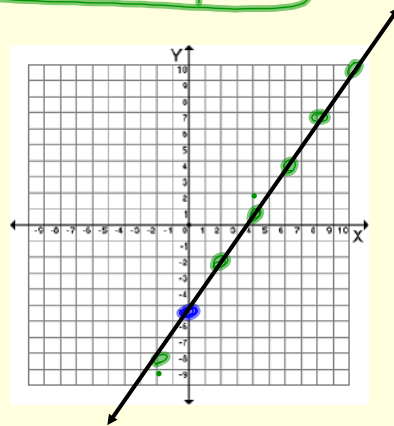
$$\cos \angle B = \frac{\text{adj}}{\text{hypot}}$$

$$\cos \angle B = \frac{6}{10}$$

- 3) Graph the Function

$$y = \frac{3}{2}x - 5$$

Line
Slope: $\frac{3}{2}$
Y-intercept: -5

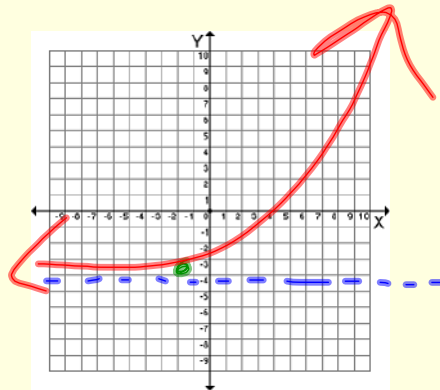


- 4) Identify the Horizontal Asymptote?

$$y = (2)^{x+2} - 4$$

Part I

$$(-2, -3)$$



Currency Review 2

Standard
1.5 b

Use the following exchange rates for the activity!

	Value to one Canadian dollar
U.S. dollar	0.991051
British Pound	0.616697
Euro	0.727323
Japanese yen	82.413
Jamaican dollar	83.6623

Examples: Which amount has the greatest value in Canadian dollars.

A) 15 USD $\frac{15 \text{ USD}}{0.991051 \text{ USD}} = 15.14 \text{ CAD}$

B) 11 Euros $\frac{11 \text{ Euros}}{0.727323 \text{ Euros}} = 15.12 \text{ CAD}$

C) 10 British Pounds $\frac{10 \text{ Pounds}}{0.616697 \text{ Pounds}} = 16.22 \text{ CAD}$

D) 15 Japanese yen $\frac{15 \text{ yen}}{82.413 \text{ yen}} = 0.18 \text{ CAD}$

10 British Pounds

Which amount has the least value in Canadian dollars?

A) 54631 Jamaican dollar $\frac{54631 \text{ Jamaican dollar}}{83.6623 \text{ Jamaican dollar}} = 652.99 \text{ CAD}$

B) 54133 Euro $\frac{54133 \text{ Euro}}{0.727323 \text{ Euro}} = 742.13 \text{ CAD}$

C) 649 USD $\frac{649 \text{ USD}}{0.991051 \text{ USD}} = 654.86 \text{ CAD}$

54,631 Jamaican dollars

