

1-11-19

Aim: SWBAT review better buy.

HW: Packet Pages 5 & 17

Do Now:

### HOMEWORK

Use unit rates to answer each question. Write your final answer in a sentence.

1. You are training for a triathlon that includes a 122 mile bike ride. Today, you rode your bike 12 miles in 45 minutes. What is your rate in miles per hour?

$$45 \text{ min} = \frac{3}{4} \text{ hr} \quad \frac{12 \text{ mi}}{\frac{3}{4} \text{ hr}} \div \frac{\frac{3}{4} \text{ hr}}{\frac{3}{4} \text{ hr}} = \frac{16 \text{ miles}}{1 \text{ hr}} \quad \text{My rate is 16 miles per hour.}$$

2. You bike 15 miles in 50 minutes. How far can you bike in 1 hour?

$$50 \text{ min} = \frac{5}{6} \text{ hr} \quad \frac{15 \text{ miles}}{\frac{5}{6} \text{ hr}} \div \frac{\frac{5}{6} \text{ hr}}{\frac{5}{6} \text{ hr}} = \frac{18 \text{ miles}}{1 \text{ hr.}} \quad \text{I can ride my bike 18 miles in one hour.}$$

3. Evan paid \$1.12 for a dozen eggs. Determine the cost of 3 eggs.

4. Annie paid \$54.50 for 2 pairs of jeans. What should 3 pairs of jeans at the same price cost?

A. \$27.25      B. \$54.50      C. \$81.50      **D. \$81.75**

5. The cost for 2 pounds of apples is \$2.90. At the same rate, which of the following would be true?

A. 1 pound costs \$1.50      **B. 3 pounds cost \$4.35**  
 C. 4 pounds cost \$5.95      D. 5 pounds cost \$6.50

Aim: SWBAT determine the better buy.

### FINDING THE BETTER BUY

Step 1 - 2) Find each unit price. (Money goes in the numerator)

Step 3) Compare the unit prices. The least expensive per unit is the better buy.

Determine the better buy.

A 20-ounce box of graham crackers costs \$3.29. A 16-ounce box costs \$2.89. Which is the better buy?			
Step 1	How much does 1 ounce of graham crackers cost for the 20-ounce box?	Step 2	How much does 1 ounce of graham crackers cost for the 16-ounce box?
	$\frac{\$3.29}{20 \text{ oz}} \div \frac{20}{20} = \$0.1645 \text{ per oz}$ $\approx \$0.16 \text{ per oz}$		$\frac{\$2.89}{16 \text{ oz}} \div \frac{16}{16} = \$0.180625 \text{ per oz}$ $\approx \$0.18 \text{ per oz}$
Step 3	The <u>20</u> - ounce box of graham crackers is the better buy because it is <u>cheaper</u> per ounce.		
Super Absorbent Towels cost \$5.99 for 9 rolls and Thirsty Power Towels cost \$7.29 for 12 rolls. Which is the better buy?			
Step 1	How much does 1 roll of the Super Absorbent Towels cost?	Step 2	How much does 1 roll of the Thirsty Paper Towels cost?
	$\frac{\$5.99}{9 \text{ rolls}} \div \frac{9}{9} = \$0.665 \text{ per roll}$ $\approx \$0.67 \text{ per roll}$		$\frac{\$7.29}{12 \text{ rolls}} \div \frac{12}{12} = \$0.6075 \text{ per roll}$ $\approx \$0.61 \text{ per roll}$
Step 3	The <u>Thirsty Power Towels</u> is the better buy because it is <u>cheaper</u> per roll.		

### HOMEWORK

1. The table below shows the price of paper plates at a store. Determine the better buy. Show work.

Sturdy Plates	24-pack for \$3.29
No Spill Plates	10-pack for \$1.79
Compartment Plates	50-pack for \$6.00

2. Four presents cost \$28.95. What is the unit price rounded to the nearest cent?

- A. \$7.23 per present                      B. \$7.24 per present  
C. \$115.80 per present                      D. \$116.00 per present

3. Which of these is a unit price?

- A.  $\frac{\$2.00}{gal}$                       B.  $\frac{gal}{\$2.99}$                       C.  $\frac{\$7.50}{2\ oz}$                       D.  $\frac{2\ pairs}{\$1.00}$

4. The table below shows the cost of fish at local markets. Which market offers the best buy?

Salmon on Sale	
Captain's	2 lbs for \$7.98
Sea Catch	5 lbs for \$9.75
Ocean	3 lbs for \$8.25
Crab Shack	\$2.99/lb

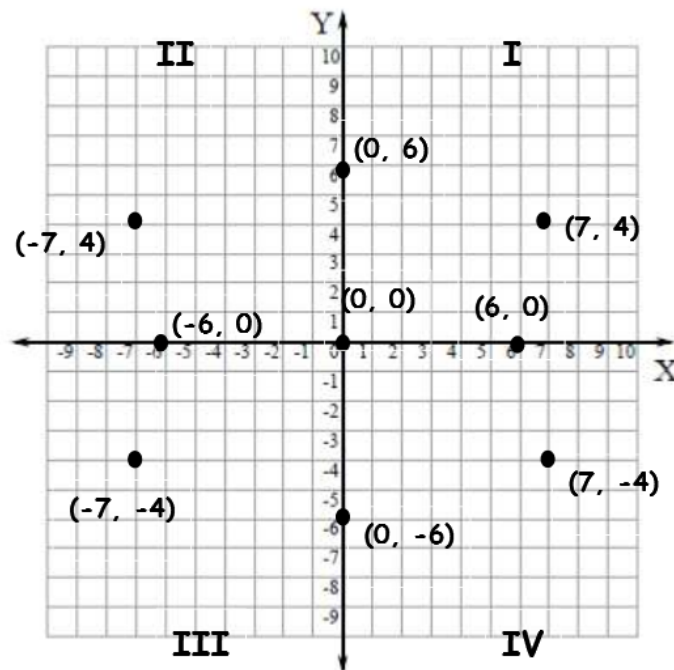
- A. Captain's  
B. Sea Catch  
C. Ocean  
D. Crab Shack

5. Which is the best buy?

- A. \$6.50 for 6 bagels                      B. \$2.00 for 3 bagels  
C. \$7.50 for 8 bagels                      D. \$4.00 for 4 bagels

Aim: SWBAT plot ordered pairs in the coordinate plane.

- A horizontal number line and a vertical number line intersect at their zero points to form a **coordinate system** for the plane.
- **x - axis**: the horizontal number line and independent axis
- **y - axis**: the vertical number line and dependent axis
- **origin**: the point where the two axes intersect. The coordinates of the origin are  $(0, 0)$
- The axes divide the plane into four **quadrants**. (Labeled using Roman Numerals)
- **Ordered Pair**: A pair of numbers in which order is specified... $(x, y)$ 
  - The first number is the x-coordinate
  - The second number is the y-coordinate



## HOMEWORK

Using a PENCIL, graph each point and connect as you go.

1.  $(-2, 2)$
2.  $(-4, 0)$
3.  $(-6, -3)$
4.  $(-6, -8)$
5.  $(-4, -12)$
6.  $(-4, -14)$
7.  $(-7, -12)$
8.  $(-9, -12)$
9.  $(-6, -16)$
10.  $(-3, -17)$
11.  $(-1, -17)$
12.  $(-2, -15)$
13.  $(-2, -13)$
14.  $(1, -13)$
15.  $(0, -16)$
16.  $(1, -17)$
17.  $(3, -15)$
18.  $(6, -11)$
19.  $(6, -9)$
20.  $(4, -11)$
21.  $(2, -11)$
22.  $(3, -9)$
23.  $(3, -6)$
24.  $(2, -3)$
25.  $(1, 0)$
26.  $(0, 2)$
27.  $(1, 4)$
28.  $(3, 5)$
29.  $(4, 2)$
30.  $(5, 1)$
31.  $(8, 4)$
32.  $(9, 7)$
33.  $(9, 11)$
34.  $(7, 16)$
35.  $(5, 17)$
36.  $(3, 17)$
37.  $(1, 16)$
38.  $(-1, 15)$
39.  $(-7, 14)$
40.  $(-10, 12)$
41.  $(-10, 9)$
42.  $(-7, 6)$
43.  $(-5, 5)$
44.  $(-2, 4)$
45.  $(-2, 2)$

