Unit 2 Vocab

Determining Ratios

A Ratio is a comparison or a relationship between two items.

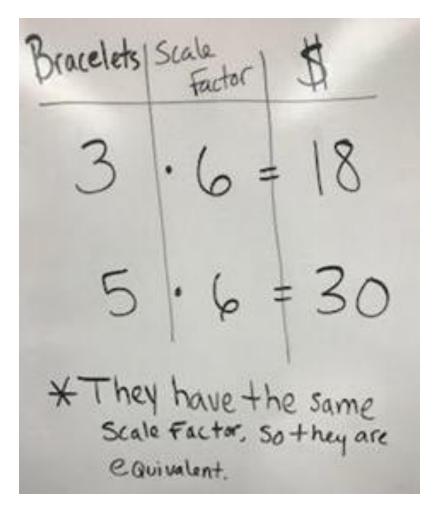


The Ratio of Blue Circles to Pink Circles is five blue circles compared to three pink circles.

We can write this in any three of the following ways:

Blue to Pink = 5 to 3 or 5:3 or 5/3

Scale Factor- The number that a ratio is moved up or down to create equivalent ratios.



Equivalent Ratioratios that are in proportion, e.g. 4:5, 8:10 and 16:20.

equivalent ratios

A ratio shows the relative sizes of two or more like values. Equivalent ratios are ratios that are in proportion.

Equivalent ratios are formed by multiplying or dividing all their terms by the same number.

Tables are useful when comparing equivalent ratios.

Lemonade Recipe

Mix cups of water, lemon juice and sugar in the ratio 3:1:1.

Water	3	6	12	24	48
Lemon Juice	1	2	4	8	16
Sugar	1	2	4	8	16

In this table, the ratio is doubled each time so the ingredients are kept in proportion.

Total: The sum of all parts of the ratio.

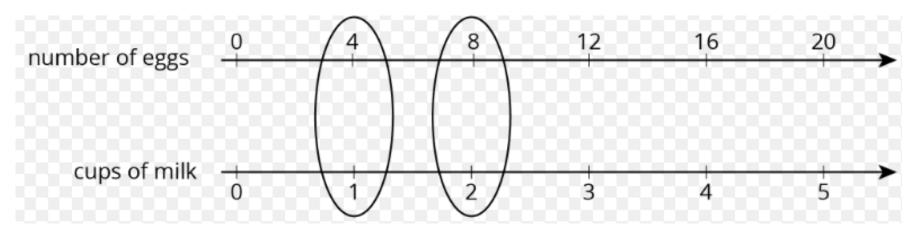
Color M&M	Quantity		
Green	10		
Red	15		
Yellow	5		
Blue	5		
Total	20		

<u>Unit:</u> A title that defines what each quantity represents.

20 pies: 44 cakes

14 pies: 26 cakes

Double Number Line Diagram- is a number line with a scale on top and a different scale on the bottom so that you can organize and compare items that change regularly according to a rule or pattern.



Per- Means for each single (1) item. Represented by a forward slash (/). Used when speaking of Unit Rate.

5 miles 2 hours

=2.5 mi./hr.

Problem	A crowded subway train among 5 cars. What is t car?	6 miles	ert to Unit Rates: 40 words 5 2 min. 2		
	passengers		SOLU BASSITISUI	3 hours 6÷3	40 ÷ 2
subway cars 375 passengers		Identify the relationship.	$= \frac{3 \div 3}{2 \text{ mi.}}$ $= \frac{2 \text{ mi.}}{1 \text{ hr.}}$	_ 20 words =2.5	
		ngers			1 min. 20 words/min.
375 passenger	5 subway	cars	Write the rate as a fraction.	(2	20 11010071111119
	375 passengers ÷ 5	75 passengers	Express the fraction		
	5 subway cars ÷ 5	1 subway car	with 1 in the denominator to find the number of passengers in one subway car.		

Unit Price: is a unit rate that give the cost per 1 unit

4.89/10 servings = 0.49/1 serving



Cost: \$4.89

Servings: 10 Cost/Serving: \$0.49



Cost: \$3.29

Servings: 30
Cost/Serving: \$0.11