WARM UP

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MATH COURSE I

Ratios and Rates

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VOCABULARY

Ratio: a comparison of two quantities using division

Equivalent ratio: ratios that name the same comparison

Ratios

Ratios can be written three ways.

1	As	a	fraction	2/3
				_/ _

- 2)With the word "to" 2 to 3
- 3)With a colon 2:3

Examples

Animals at the Vet				
Cats	5			
Dogs	7			
Rabbits	2			

A) Cats to rabbits: 5/2, 5 to 2, or 5:2

B) Rabbits to cats: 2/5, 2 to 5, or 2:5

C)Dogs to total number of pets:

7/14, 7 to 14, 7:14

- D) Rabbits to dogs:
- E) Cats to dogs:

Equivalent Ratio

A.K.A. Equivalent Fractions

Ratios that name same comparison are equivalent.

Example

*Write three equivalent ratios to compare the number vowels to the number of consonants.

aeiobcdfgh

$$4:6 = 4/6 = 8/12 = 2/3$$

Proportions

An equation stating that two ratios are equal (equivalent ratios)

5/6 = 25/35 Explain why this is not a proportion.

 $5 \times 5 = 25$; $6 \times 5 \neq 35$

Practice

Practice Writing Ratios

Practice Writing Equivalent Ratios

Proportional Relationships in Geometry

Proportional Relationships Word Problems

Proportional Relationships with Scales