

EQUEUALENT RATTOS

Two ratios or rates are equal (or equivalent) when...

1. ...they create the same Unit rate;

2. ...they create quivalent fractions; OR

20 out of 20 people go to a movie $\int_{20}^{10} x^{2}_{2} = \frac{20}{40} + \frac{20}{45}$

3. ...they have equal <u>cross</u> <u>products</u>

7 dogs 5x5 = 6x7

MORE EXAMPLES

Lesson 6 Extra Practice: Equivalent Ratios

Determine if each pair of ratios or rates is equivalent.

DE DO:

\$16 for 2 tickets; \$40 for 5 tickets

$$\frac{516}{2} \div \frac{2}{2} = \frac{58}{1}$$



8 out of 10 boys play a sport; 25 out of 30 boys play a sport

$$\frac{8}{10} \times \frac{3}{3} = \frac{24}{30} \neq \frac{25}{30}$$

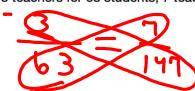
X, they are hot =.

5 minutes to read 9 pages; 50 minutes to read 30 pages



എം എം (You may choose which of the 3 ways)

3 teachers for 63 students; 7 teachers for 147 students



yes they are sequal sqtios1

Lusita earned \$85 for 8 hours of babysitting. Avery earned \$125 for 11 hours of babysitting. Are the rates equivalent? Explain your reasoning.



class during the first 30 days of school. During the

Miss Ferguson recorded 17 absences in her class during the first 30 days of school. During the last 60 days of school, she recorded 42 absences. Are the rates equivalent? Explain your reasoning.

$$\frac{17}{30} = \frac{42}{60} = \frac{17}{34}$$

$$\frac{17}{30} \times \frac{2}{2} = \frac{34}{60}$$

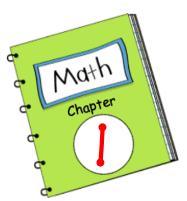
XNO, there are not =

Lesson 6 Skills Practice

Equivalent Ratios

Determine if each pair of ratios or rates are equivalent. Explain your reasoning.

- \$18 for 3 bracelets; \$30 for 5 bracelets
 120 Calories in 2 servings; 360 Calories in 6 servings
 4 hours worked for \$12; 7 hours worked for \$28
- 4. 15 blank CDs for \$5; 45 blank CDs for \$15
- 5. 24 points scored in 4 games; 48 points scored in 10 games
- 6. 15 out of 20 students own hand-held games; 105 out of 160 students own hand-held games.
- 7. 30 minutes to jog 3 miles; 50 minutes to jog 5 miles
- 8. \$3 for 6 muffins; \$9 for 18 muffins
- 9. 360 miles driven on 12 gallons of fuel; 270 miles driven on 9 gallons of fuel
- 10. SHOPPING Miguel bought 2 pairs of jeans for \$50, and Han bought 4 pairs of jeans for \$90. Did they pay the same rate? Explain your reasoning.



TTTLE:





Q	1	
Date	Lesson	Topic/Assignment
11/30	1	GGF and LGM Notes and Example WS
12/1	1	Homework: Page II from Text
12/1	1	Classwork: Page 13-14 from Text
12/2	2	Ratios Video Notes
12/3	2	Ratios Scavenger Hunt
12/4	3	Rates Video Notes
12/7	3	Classwork: Skills Practice WS
12/11	6	Equivalent Ratios Video Notes
12/11	6	Classwork: Skills Practice WS
		•

