

Equivalent Ratios

Guided Practice

Determine if each pair of ratios or rates is equivalent.

1. \$24 saved after 3 weeks; \$52 saved after 7 weeks (Examples 1 and 2)

Show your work.

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2. 270 Calories in 3 servings; 450 Calories in 5 servings (Examples 1 and 2)

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3. Micah can do 75 push-ups in 3 minutes. Eduardo can do 130 push-ups in 5 minutes. Are these rates equivalent?

Explain. (Example 3)

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4. A human adult takes about 16 breaths in 60 seconds. A puppy takes about 8 breaths in 15 seconds. Are these rates equivalent? Explain your reasoning. (Examples 4 and 5)

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Independent Practice

Determine if each pair of ratios or rates is equivalent. **reasoning.** (Examples 1-2, 4-5)

1. \$3 for 6 bagels; \$9 for 24 bagels

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2. \$12 for 3 paperback books; \$28 for 7 paperback books

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3. 3 hours worked for \$12; 9 hours worked for \$36

4. 12 minutes to drive 30 laps; 48 minutes to drive 120 laps

5. Jenny is comparing the cost of two packages of socks. One package has 8 pairs of socks for \$12. Another package has 3 pairs of socks for \$6. Are the rates equivalent? Explain your reasoning.

6. Jade enlarged the photograph at the right to a poster. The size of the poster is 60 inches by 100 inches. Is the ratio of the poster's length and width equivalent to the ratio of the photograph's length and width? Explain your reasoning. (Example 3)



Determine if each pair of ratios or rates is equivalent.

13. 96 words typed in 3 minutes; 160 words typed in 5 minutes

14. 15 computers for 45 students; 45 computers for 135 students

15. 16 out of 28 students own pets; 240 out of 560 students own pets

16. 288 miles on 12 gallons of fuel; 240 miles on 10 gallons of fuel

17. Fenton is building a model of a living room. The model sofa is 16 inches long and 7 inches deep. The real sofa's dimensions are 80 inches long and 35 inches deep. Is the ratio of the model's dimensions equivalent to the ratio of the real sofa's dimensions? Explain your reasoning.
