# Equivalent Ratios Homework Practice

## Choose 6 problems. Label your answers and SHOW ALL WORK!

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

  **1.** 18 vocabulary words learned in 2 hours; 27 vocabulary words learned in 3 hours

  **2.** $15 for 5 pairs of socks; $25 for 10 pairs of socks

  **3.** 20 out of 45 students attended the concert; 12 out of 25 students attended the concert

  **4.** 78 correct answers out of 100 test questions; 39 correct answers out of 50 test questions

  **5.** 15 minutes to drive 21 miles; 25 minutes to drive 35 miles

**ANIMALS For Exercises 6–8, refer to the table on lengths of some animals with long tails. Determine if each pair of animals has the same ratio of body length to tail length. Explain your reasoning.**

  **6.** brown rat and opossum

  **7.** hamster and lemming

  **8.** opossum and prairie dog

| Animal Lengths (mm) | | |
|---|---|---|
| **Animal** | **Head & Body** | **Tail** |
| Brown Rat | 240 | 180 |
| Hamster | 250 | 50 |
| Lemming | 125 | 25 |
| Opossum | 480 | 360 |
| Prairie Dog | 280 | 40 |

## Choose 4 problems. Label your answers and SHOW ALL WORK!

| | |
|---|---|
| **1. FITNESS** Jessica can do 60 jumping-jacks in 2 minutes. Dale can do 150 jumping jacks in 5 minutes. Are these rates equivalent? Explain your reasoning. | **2. BAKING** A cookie recipe that yields 48 cookies calls for 2 cups of flour. A different cookie recipe that yields 60 cookies calls for 3 cups of flour. Are these rates equivalent? Explain your reasoning. |
| **3. MUSIC** A music store is having a sale where you can buy 2 new-release CDs for $22 or you can buy 4 new-release CDs for $40. Are these rates equivalent? Explain your reasoning. | **4. TRAVEL** On the Mertler's vacation to Florida, they drove 180 miles in 3 hours before stopping for lunch. After lunch they drove 120 miles in 2 hours before stopping for gas. Are these rates equivalent? Explain your reasoning. |
| **5. BOOKS** At the school book sale, Michael bought 3 books for $6. Darnell bought 5 books for $10. Are these rates equivalent? Explain your reasoning. | **6. SURVEY** One school survey showed that 3 out of 5 students own a pet. Another survey showed that 6 out of 11 students own a pet. Are these results equivalent? Explain your reasoning. |