**Chapter 1 Mid-Chapter Test Study Guide**

**1.** Find the greatest common factor of 16 and 24.

**2.** Find the least common multiple of 6 and 42.

**3.** What is the ratio of triangles to total shapes in simplest form?

**4.** There are 12 girls and 22 boys in the art club.

**a.** What is the ratio of girls to boys in simplest form?

**b.** Explain what this ratio means.

**Write each rate as a unit rate. Simplify.**

**5.** $16 for 4 pounds of rice

**6.**  490 miles in 7 hours

**7.** Chin bought 20 pounds of apples for $12. Use the ratio table to find the cost of buying 15 pounds of apples.

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| --- | --- | --- | --- |
| **Pounds of Apples** | 20 |  | 15 |
| **Price of Apples** | $12 |  | ∎ |

**8. MONEY** The table shows the amount of money Dawson earned for walking his neighbor’s dog. Graph the ordered pairs (number of days, amount earned). Then describe the pattern in the graph.

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| --- | --- | --- | --- | --- |
| **Amount Earned ($)** | 0 | 5 | 10 | 15 |
| **Number Of Days** | 0 | 1 | 2 | 3 |

**9.** There are 16 boys and 12 girls in the art club. Ms. Bell wants to break the club into groups, with each group containing the same combination of boys and girls. Ms. Bell also wants to make sure that no one is left out. What is greatest number of groups Ms. Bell can make? How many boys and how many girls will be in each group?

**10.** Jack has 48 photos from his trip to the mountains. He wants to divide the photos into two groups so the ratio of the groups is 3 to 5. How many photos will be in each group?

**11.** Palak is baking several cakes to sell at the Fall Festival. She used 10 cups of sugar for every 15 cups of flour. How much sugar is used for each cup of flour?

**12.** Julie has a coupon for 5 cartons of ice cream for $12. How much does each carton cost.

**1.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.a.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b.** For every \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, there are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**5.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**8.** For every \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, there are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**9.** Number of groups: \_\_\_\_\_\_\_\_\_\_

Number of boys per group: \_\_\_\_\_\_

Number of girls per group: \_\_\_\_\_\_

**10.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**11.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**12.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_