Name: _____ Date: _____ Section: 5__

Study Guide: Multiplying and Dividing Fractions & Fractions

1. Ricardo is using a recipe for 4 loaves of bread that uses $\frac{2}{3}$ cups of oil. However, he only wants to make 1 loaf of bread. How many cups of oil will he need to make just 1 loaf?

2. Cheryl and Marcus are making two batches of muffins. The smaller batch is $\frac{2}{3}$ the size of the larger batch. If the larger batch uses a $\frac{3}{5}$ cup of water, how much water will they need in total?

3. 3 pizzas are cut into $\frac{1}{8}$-sized pieces. How many total pieces are there?

4. A rain gauge measures $3\frac{5}{8}$ inches of rain one day. The next day, it measures only $\frac{3}{4}$ of the previous day. How many inches of rain did it measure the next day?

5. A farmer took $\frac{2}{3}$ of the strawberries he harvested to the market. The market, he sold $\frac{1}{4}$ of what he brought. How much of the harvest strawberries did he sell?

6. Mari has $\frac{1}{4}$ of a bag of dates left. She takes what is left and splits it into $\frac{1}{3}$ portions. If she keeps two bags, how much of the original bags has she kept?

7. A growing dinosaur capsule starts at 3 cm long. After putting it in water, it becomes $2\frac{3}{4}$ times larger. After sitting out for an hour, it becomes $\frac{1}{2}$ as large as its biggest size. How big is its final size?

8. Tina has $\frac{3}{5}$ of a pound of rice. She will use $\frac{2}{3}$ of it to make fried rice. How many pounds of rice will Tina use for fried rice?

9. A trail is $\frac{3}{4}$ of a mile long. At $\frac{5}{6}$ of the length of the trail there is lookout post. How far, in miles, is the lookout from the start of the trail?

10. Xing has 20 concrete blocks.
    a. He cuts each block into $\frac{2}{5}$-sized pieces to create bricks. How many bricks does he back in total?
    b. Half of the bricks are further broken into $\frac{1}{3}$-sized chunks. How many $\frac{1}{3}$-sized chunks are there.

11. See the following expression:
$$\frac{1}{4} \times c$$
Evaluate this expression if $c = \frac{2}{7}$.

12. Rashid is planning on spending $\frac{2}{3}$ as many hours watching television this week as he did last week. Is Rashid going to spend more hours or fewer hours watching television this week?

13. Ariel goes running for $\frac{5}{6}$ of an hour. The next day, she runs for $\frac{3}{4}$ as much time.
    a. Does she spend more or less time running the second day?
    b. By mistake, she runs $\frac{3}{2}$ as much time. Did she run more or less than what she meant to?

14. Annette has $4\frac{1}{2}$ liters of cranberry juice in a jug. She trips and spills $\frac{3}{4}$ of it.
    a. How much has spilled on the floor?
    b. How much left in the jug?

15. See the following expression:
$$2 \div x$$
Evaluate this expression if $x = \frac{5}{9}$.