

Fluency 9 Review

Name: Key # _____
Date: _____

5.NF.6

1. Grace has 20 highlighters. One-fourth of them are pink. How many of the highlighters are pink?

TS: 5 of the highlighters are pink.

$$\frac{1}{4} \text{ of } 20 = \frac{1}{4} \times \frac{20}{1} = \frac{20}{4}$$

5

2. A cookie recipe calls for one-fourth of a cup of sugar. If Sam only make one-half of the recipe, how much sugar will he need?

TS: I will need $\frac{1}{8}$ of a cup of sugar.

$$\frac{1}{2} \text{ of } \frac{1}{4} = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

3. The dimensions of a desk are 3 and 1-fourth feet by 4 and 2-thirds feet. What is the area of the desk?

TS: The area of the desk is $15\frac{1}{6} \text{ ft}^2$.

$$3\frac{1}{4} \times 4\frac{2}{3} = \frac{13}{4} \times \frac{14}{3} = \frac{91}{6}$$

$15\frac{1}{6} \text{ ft}^2$

4. Ms. Sammons is filling five buckets of water for art class. She puts 5-sixths of a cup of water in each bucket. How much total water will she need?

TS: She will need $4\frac{1}{6}$ cups of water.

$$5 \times \frac{5}{6} = \frac{25}{6} = 4\frac{1}{6}$$

5. A bricklayer is using bricks that are 4 and 3-fourths inches tall. If he stacks 7 bricks, how tall is the whole stack of bricks?

TS: His stack is $33\frac{1}{4}$ intall.

$$7 \times 4\frac{3}{4} = 7 \times \frac{19}{4} = \frac{133}{4}$$

$33\frac{1}{4}$

6. Mark bought 20 packages of chips. One-fifth of them are Cheetos. How many packages of chips are not Cheetos?

TS: 16 packages are not chips.

$$\frac{4}{5} \times 20 = \frac{4 \times 20}{5} = 16$$

7. Solve. Simplify the fraction if possible.

$$\frac{1}{3} \div 7 =$$

$$\frac{1}{3} \times \frac{1}{7} = \frac{1}{21}$$

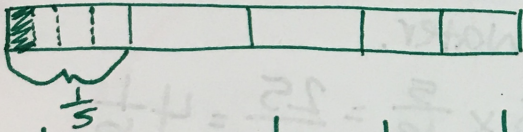
8. Solve. Simplify the fraction if possible.

$$8 \div \frac{1}{4} =$$

$$8 \times 4 = 32$$

9. 4 people are sharing 1-fifth pound of peanuts. How much will each person get?

TS: Each person will get $\frac{1}{20}$ pound.



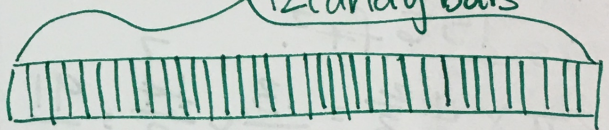
$$\frac{1}{5} \div 4 = \frac{1}{5} \times \frac{1}{4} = \frac{1}{20}$$

10. Mary has 12 candy bars to share with her friends. If she cuts them into thirds, how many pieces will she have?

TS: she will have 36 pieces.

$$12 \div \frac{1}{3} = 12 \times 3 = 36$$

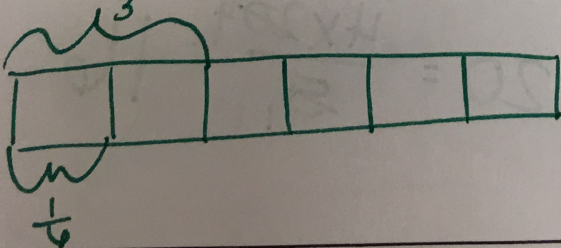
12 candy bars



11. How much pizza will each person get if 2 people share 1-third of a pizza?

TS: Each person will get $\frac{1}{6}$ of a pizza.

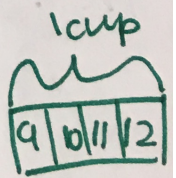
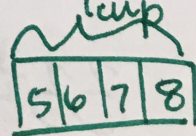
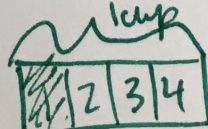
$$\frac{1}{3} \div 2 = \frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$$



12. How many 1-fourth cup servings are in 3 cups of cereal?

TS: There are 12 $\frac{1}{4}$ cup servings in 3 cups of cereal.

$$3 \div \frac{1}{4} = 3 \times 4 = 12$$



1 serving