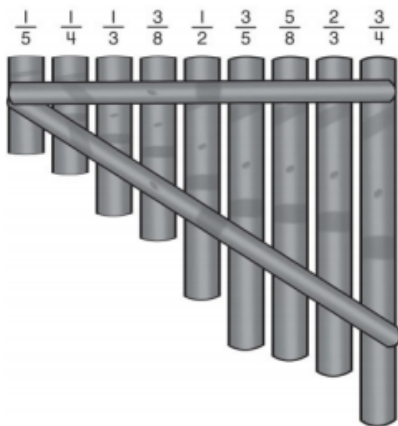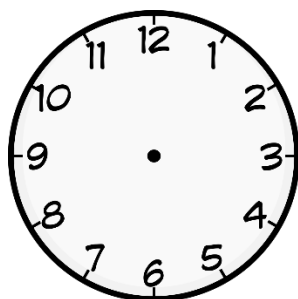Name _____

Add, Subtract, Multiply Fractions Review

1. The diagram shows the length of each reed, in feet, used to make a set of reed pipes. Use the information in the diagram to solve parts a and b.
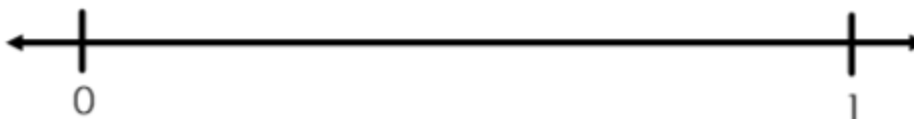
$\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{3}{5}$ $\frac{5}{8}$ $\frac{2}{3}$ $\frac{3}{4}$

a. Thomas makes the first and last pipes in the set. How many feet of reed does he use?

b. Mandy has $\frac{7}{9}$ feet of reed. How much reed does she have left after making the eighth pipe in the set?

2. Jason spends $\frac{1}{3}$ of each day sleeping. What is the total number of days that Jason spends awake in 1 week?

3. Gus bought $\frac{2}{3}$ pound of turkey and ¼ pound of ham. The turkey costs $9 per pound and the ham costs $7 per pound. In all, how much did Gus spend?

a. $1.75
b. $6.00
c. $7.75
d. $16.00

4. Tracy took a quiz containing 12 items. If she answered $\frac{5}{6}$ of the items correctly, how many items did she answer correctly?

5. Tim worked on his science fair project about volcanoes for one hour. He spent 15 minutes on decorating his display board and 20 minutes testing his volcano demonstration. What fraction of the hour did Tim spend on his display board and volcano?

a. $\frac{1}{4}$

b. $\frac{1}{2}$

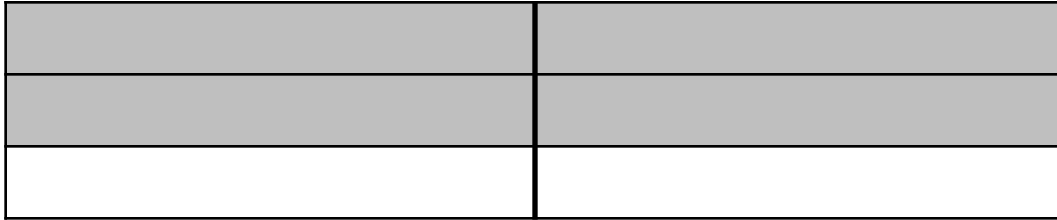c. $\frac{5}{12}$

d. $\frac{7}{12}$

6. Janice is making 32 cereal yogurt bars. If she needs $\frac{1}{8}$ of a cup of honey for each bar, how many cups of honey will Janice need in all?

7. Alana has a red piece of ribbon that is 3.758 centimeters long and a blue piece of ribbon that is 37.4 centimeters long. How much longer is the blue piece of ribbon than the red piece of ribbon?

8. One of the tables at an ice cream party has mint chocolate chip ice cream. The servings are $\frac{1}{5}$ of a cup. If Ms. Bloom scooped out 4 servings, how much ice cream did she serve? Use the number line to model and write an equation to answer.

_____ × _____ = _____ of a cup

9. During clean up time for the ice cream party, Mr. Diaz found 2 one-gallon containers that were $\frac{2}{3}$ full. How much ice cream was left?
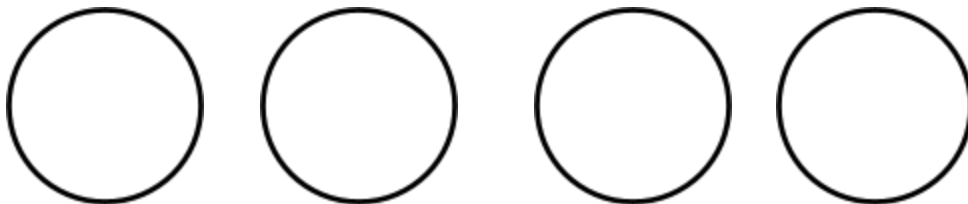

_____ × _____ = _____ gallons

10. Shannon attends school for 1 week longer than ¾ of the year. How many weeks in a year does Shannon attend school? (Hint: There are 52 weeks in a year)

    a. 27 weeks
    b. 38 weeks
    c. 39 weeks
    d. 40 weeks

11. A rectangular painting is 3 feet long and $\frac{5}{6}$ foot wide. Which is the area of the painting?

    a. 2 ½ square feet
    b. 2 ¼ square feet
    c. 2 ¾ square feet
    d. $2\frac{5}{6}$ square feet

12. There are 24 stanzas in a song for the school play. Samantha has memorized ¾ of them so far. How many stanzas has she memorized? *Complete the equal groups model to show your solution. *

Equation: _____ x _____ = _____

13. Henry had $200 when he went to the mall to buy some gifts. The first purchase was for $132.54 and the second purchase was for $36.98. How much money did he come home with?

14. County Middle School is buying pizza for all of its students. Each pizza has 8 slices. Each student will receive 1 slice. There are 700 students at County Middle School. How many pizzas will the school need to buy?

15. Look at the table below. If the pattern shown in the table continues, how many baseball caps will be in 7 packages?
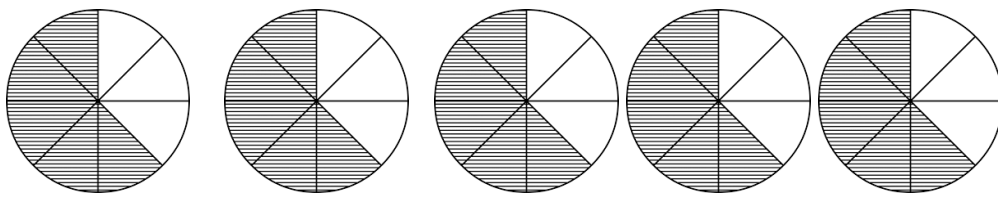
Number of Packages	3	5	7	9
Number of Baseball Caps	27	45		81

16. Ada paid $6,447 for 21 acres of land. How much did Ada pay for each acre?

17. Eli and Lucas are reading a book for school over their summer vacation. Eli has already read $\frac{5}{9}$ of the book. Lucas has read $\frac{1}{4}$ of his book. How much more did Eli read than Lucas?

18. Kimberly needs to read $\frac{4}{20}$ of her book to finish it. During one rainy weekend, she reads $\frac{1}{10}$ of the book. How much does she have left?

19. The shaded model below shows the amount of pie sold at a local bakery. What is the total amount of pie sold? Express as a mixed number.

20. Atlanta, Georgia is 208.86 miles from Memphis, Tennessee. Charlotte, North Carolina is 410.62 miles from Memphis, Tennessee. How much farther is Charlotte than Atlanta from Memphis?

21. Bill caught a fish that was 169 inches long. Bill's fish was 27 inches shorter than Jane's. Jane's fish was 20 inches longer than Betty's. How long was Betty's fish?

22. Jordan is baking cookies for a party. She needs $3\frac{1}{4}$ cups of flour for chocolate chip cookies and $5\frac{1}{3}$ cups of flour for oatmeal bars. How much more flour will Jordan use for oatmeal bars than chocolate chip cookies?

23. At the grocery store, Jim bought $7\frac{5}{8}$ pounds of deli turkey meat at $3.14 a pound and $2\frac{3}{4}$ pounds of deli chicken meat at $2.99 a pound. How many more pounds of deli turkey was purchased than deli chicken meat?