

3. Sarah says that $26 \div 8$ equals $14 \div 4$ because both are "3 R2." Show her mistake using decimal division.

4. A rectangular playground has an area of 3,392 square meters. If the width of the rectangle is 32 meters, find the length.



5. A baker uses 5.5 pounds of flour daily.

a. How many ounces of flour will he use in two weeks? Use words, numbers, or pictures to explain your thinking. (1 lb = 16 oz)

b. The baker's recipe for a loaf of bread calls for 12 ounces of flour. If he uses all of his flour to make loaves of bread, how many full loaves can he bake in two weeks?

c. The baker sends all his bread to one store. If he can pack up to 15 loaves of bread in a box for shipping, what is the minimum number of boxes required to ship all the loaves baked in two weeks? Explain your reasoning.

6. On Sunday, Sheldon bought $4\frac{1}{2}$ kg of plant food. He used $1\frac{2}{3}$ kg on his strawberry plants and used $\frac{1}{4}$ kg for his tomato plants.
- How many kilograms of plant food did Sheldon have left? Write one or more equations to show how you reached your answer.
 - Sheldon wants to feed his strawberry plants 2 more times and his tomato plants one more time. He will use the same amounts of plant food as before. How much plant food will he need? Does he have enough left to do so? Explain your answer using words, pictures, or numbers.
7. Sheldon harvests the strawberries and tomatoes in his garden.
- He picks $1\frac{2}{5}$ kg less strawberries in the morning than in the afternoon. If Sheldon picks $2\frac{1}{4}$ kg in the morning, how many kilograms of strawberries does he pick in the afternoon? Explain your answer using words, pictures, or equations.
 - Sheldon also picks tomatoes from his garden. He picked $5\frac{3}{10}$ kg, but 1.5 kg were rotten and had to be thrown away. How many kilograms of tomatoes were not rotten? Write an equation that shows how you reached your answer.
 - After throwing away the rotten tomatoes, did Sheldon get more kilograms of strawberries or tomatoes? How many more kilograms? Explain your answer using an equation.

8. The baker pays \$0.80 per pound for sugar and \$1.25 per pound for butter. Write an expression that shows how much the baker will spend if he buys 6 pounds of butter and 20 pounds of sugar.

9. Chocolate sprinkles cost as much per pound as sugar. Find $\frac{1}{10}$ the baker's total cost for 100 pounds of chocolate sprinkles. Explain the number of zeros and the placement of the decimal in your answer.

10. Multiply or divide. Draw a model to explain your thinking.

a. $\frac{1}{3} \times \frac{1}{4}$

b. $\frac{3}{4}$ of $\frac{1}{3}$

c. $\frac{3}{4} \times \frac{3}{5}$

d. $4 \div \frac{1}{3}$

e. $5 \div \frac{1}{4}$

f. $\frac{1}{4} \div 5$

11. Multiply or divide using any method.

a. 1.5×32

b. 1.5×0.32

c. $12 \div 0.03$

d. $1.2 \div 0.3$

e. $12.8 \times \frac{3}{4}$

f. $102.4 \div 3.2$

12. Fill in the chart by writing an equivalent expression.

a.	One-fifth the sum of one-half and one-third	
b.	Two and one-half times the sum of nine and twelve	
c.	Twenty-four divided by the difference between $1\frac{1}{2}$ and $\frac{3}{4}$	

13. A castle has to be guarded 24 hours a day. Five knights are ordered to split each day's guard duty equally. How long will each knight spend on guard duty in one day?

a. Record your answer in hours.

b. Record your answer in hours and minutes.

c. Record your answer in minutes.

14. On the blank, write a division expression that matches the situation.

a. _____ Mark and Jada share 5 yards of ribbon equally. How much ribbon will each get?

b. _____ It takes half of a yard of ribbon to make a bow. How many bows can be made with 5 yards of ribbon?

15. Jackson claims that multiplication always makes a number bigger. He gave the following examples:

- If I take 6, and I multiply it by 4, I get 24, which is bigger than 6.
- If I take $\frac{1}{4}$, and I multiply it by 2 (whole number), I get $\frac{2}{4}$, or $\frac{1}{2}$, which is bigger than $\frac{1}{4}$.

Jackson's reasoning is incorrect. Give an example that proves he is wrong, and explain his mistake using pictures, words, or numbers.

16. Heather has a rectangular yard. She measures it and finds out it is $24\frac{1}{2}$ feet long by $12\frac{4}{5}$ -feet wide.

a. She wants to know how many square feet of sod she will need to completely cover the yard. Draw the yard, and label the measurements.

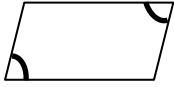
b. How much sod will Heather need to cover the yard?

c. If each square foot of sod costs 65 cents, how much will she have to pay to cover her yard?

17. Miguel and Jacqui built towers out of craft sticks. Miguel's tower had a 4-inch square base. Jacqui's tower had a 6-inch square base. If Miguel's tower had a volume of 128 cubic inches and Jacqui's had a volume of 288 cubic inches, whose tower was taller? Explain your reasoning.

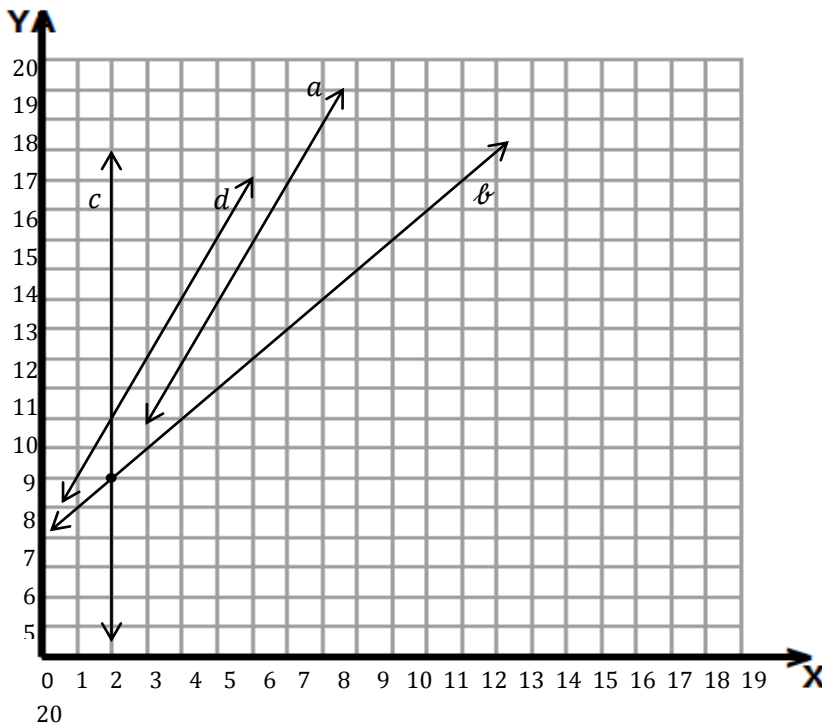
18. Read the statements. Circle True or False. Explain your choice for each using words and/or pictures.

- a. All parallelograms are quadrilaterals. True False
- b. All squares are rhombuses. True False
- c. Squares are rhombuses, but not rectangles. True False
- d. The opposite angles in a parallelogram have the same measure. True False



- e. Because the angles in a rectangle are 90° , it is not a parallelogram. True False
- f. The sum of the angle measures of any trapezoid is greater than the sum of the angle measures of any parallelogram. True False

19. Complete the table for the rule *multiply by 2 and then add 2* for the values of x from 0 to 4. Then, use the coordinate plane to answer the questions.



x	y	(x, y)
0		
1		
2		
3		
4		

- a. Which line shows the rule in the table?
- b. Give the coordinates for the intersection of lines b and c .
- c. Draw a line on the graph such that any point on the line has a y -coordinate of 2. Label your line as e .
- d. Which coordinate is 2 for any point on line c ?