

Summative Assessment - DIVIDING FRACTIONS

1. Two children share $2\frac{1}{2}$ chocolate bars with each child getting the same amount. How much does each child get? Solve with a drawing.



Write a number sentence for this problem. _____

2. Five large cookies are shared equally among 8 children. What part of a cookie does each child receive? Draw a picture to solve.



Write a number sentence for this problem. _____

3. Peter has $4\frac{1}{2}$ yards of wood. He is making shelves. One shelf requires $\frac{3}{4}$ of a yard of wood. How many shelves can Peter make from the wood he has? Draw a picture to solve.



Write a number sentence for this problem. _____

4. Susie has $8\frac{3}{4}$ of a yard of ribbon. She is going to make bows for a fundraiser event. Each bow needs $\frac{1}{2}$ yard of ribbon. How many bows can Susie make? Draw a picture to solve.



Write a number sentence for this problem. _____

Write a word problem for each number sentence and then solve it.

5. $5\frac{1}{2} \div \frac{1}{4} =$

6. $6 \div \frac{3}{4} =$

7. $2\frac{2}{5} \div \frac{3}{8} =$

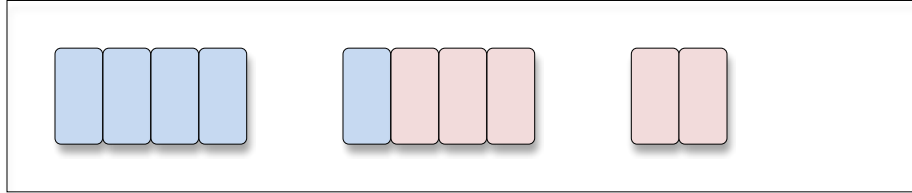
8. $7 \div \frac{4}{5} =$

Draw a picture to solve. Write the number sentence.

9. Molly has $3\frac{3}{8}$ cups of raisins. She is making cookies that call for $\frac{3}{4}$ of a cup of raisins for each batch of cookies. How many batches of cookies can Molly make?
10. Riley is trying to raise money by selling key chains. Each key chain costs \$2.50. If Riley is trying to raise \$60, how many key chains will he have to sell?

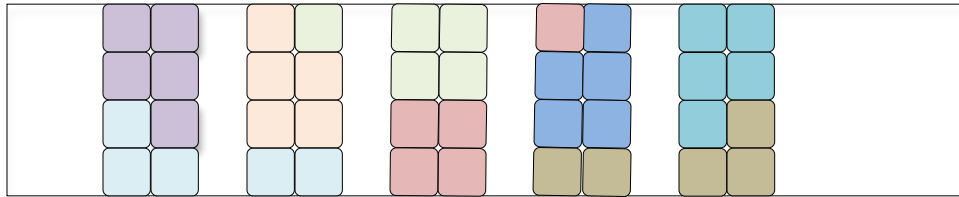
Summative Assessment - DIVIDING FRACTIONS - Answers

1. Two children share $2\frac{1}{2}$ chocolate bars with each child getting the same amount. How much does each child get? Solve with a drawing.



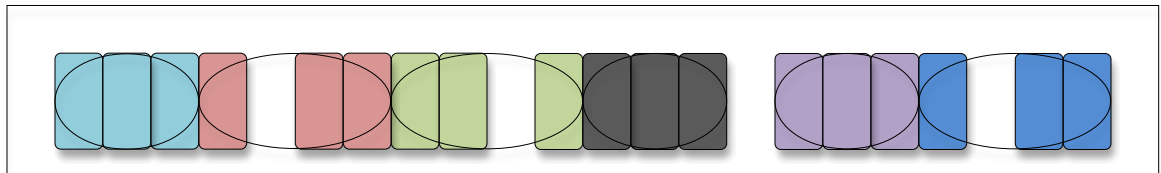
Write a number sentence for this problem. $2\frac{1}{2} \div 2 = \frac{5}{2} \cdot \frac{1}{2} = \frac{5}{4} = 1\frac{1}{4}$

2. Five large cookies are shared equally among 8 children. What part of a cookie does each child receive? Draw a picture to solve.



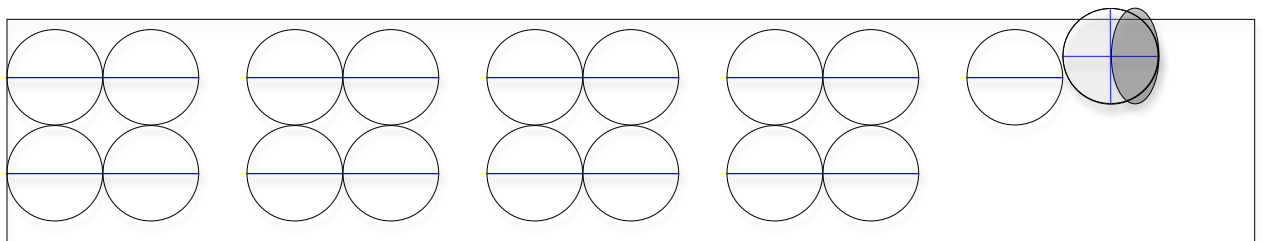
Write a number sentence for this problem. $5 \div 8 = \frac{5}{1} \cdot \frac{1}{8} = \frac{5}{8}$

3. Peter has $4\frac{1}{2}$ yards of wood. He is making shelves. One shelf requires $\frac{3}{4}$ of a yard of wood. How many shelves can Peter make from the wood he has? Draw a picture to solve.



Write a number sentence for this problem. $4\frac{1}{2} \div \frac{3}{4} = \frac{9}{2} \cdot \frac{4}{3} = \frac{36}{6} = 6$

4. Susie has $8\frac{3}{4}$ of a yard of ribbon. She is going to make bows for a fundraiser event. Each bow needs $\frac{1}{2}$ yard of ribbon. How many bows can Susie make? Draw a picture to solve.



Write a number sentence for this problem. $8\frac{3}{4} \div \frac{1}{2} = \frac{35}{4} \cdot \frac{2}{1} = \frac{70}{4} = 17\frac{1}{2}$

Write a word problem for each number sentence and then solve it.
(Word problems may vary, but the solution should be the same.)

5. $5\frac{1}{2} \div 1/4$ Tony had $5\frac{1}{2}$ yards of wood. He would like to make shelves that are $\frac{1}{4}$ of a yard long. How many shelves can he make?

$$5\frac{1}{2} \div \frac{1}{4} = \frac{11}{2} \cdot \frac{4}{1} = \frac{44}{2} = 22$$

6. $6 \div 3/4 =$ Maria is making bags of candy for the first day of school. She has 6 lbs. of candy and will make bags of $\frac{3}{4}$ lbs each. How many bags can she make?

$$6 \div \frac{3}{4} = \frac{6}{1} \cdot \frac{4}{3} = \frac{24}{3} = 8$$

7. $2\frac{2}{5} \div \frac{3}{8} =$ If Zachary had $2\frac{2}{5}$ feet of ribbon and needs $\frac{3}{8}$ of a foot for each poster, how many posters can Zachary hang with the ribbon? Zachary can hang 6 whole posters with the ribbon he has.

$$2\frac{2}{5} \div \frac{3}{8} = \frac{12}{5} \div \frac{3}{8} = \frac{12}{5} \cdot \frac{8}{3} = \frac{96}{15} = 6\frac{2}{5} \text{ (Interpret remainder)}$$

8. $7 \div 4/5 =$ Riley has 7 yards of material. She is going to make some aprons which require only $\frac{4}{5}$ of a yard each. How many aprons can Riley make?

$$7 \div \frac{4}{5} = \frac{7}{1} \cdot \frac{5}{4} = \frac{35}{4} = 8\frac{3}{4} \text{ She can make 8 whole aprons.}$$

Write the number sentence and solve.

9. Molly has $3\frac{3}{8}$ cups of raisins. She is making cookies that call for $\frac{3}{4}$ of a cup of raisins for each batch of cookies. How many batches of cookies can Molly make?

$$3\frac{3}{8} \div \frac{3}{4} = \frac{27}{8} \cdot \frac{4}{3} = \frac{108}{24} = 4\frac{1}{2} \text{ Molly can make } 4\frac{1}{2} \text{ batches of cookies.}$$

10. Riley is trying to raise money by selling key chains. Each key chain costs \$2.50. If Riley is trying to raise \$60, how many key chains will he have to sell?

$$60 \div 2\frac{1}{2} = \frac{60}{1} \cdot \frac{2}{5} = \frac{120}{5} = 24$$