Name _____

Quotient Match Riddle

Find the quotient. Write each quotient as a fraction. Each quotient in the numbered column should match a quotient in the lettered column.

1. $3 \div \frac{1}{6} =$ _____

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

3. $6 \div \frac{1}{2} =$ _____

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

5. $\frac{1}{2} \div 3 =$ _____

6. $3 \div \frac{1}{8} =$ _____

7. $\frac{1}{6} \div 2 =$ _____

A. $\frac{1}{10} \div 1 =$ _____

E. $3 \div 18 =$ _____

N. $8 \div \frac{1}{3} =$ _____

P. $6 \div \frac{1}{3} =$ _____

S. $\frac{1}{3} \div 4 =$ _____

R. $4 \div \frac{1}{3} =$ _____

W. $2 \div 16 =$ _____

To solve the riddle, write the letter that corresponds to the matching exercise number.

What is black and white and read all over?

___	___	___	___	___	___	___	___	___	___
2	6	5	4	7	1	2	1	5	3

Name _____

Eating Fractions

Solve each problem. You may find it helpful to draw a diagram.

1. Alexia makes 8 submarine sandwiches. She cuts 4 of the sandwiches into thirds. She cuts the remaining 4 sandwiches into halves. Alexia eats 2 of the $\frac{1}{3}$-sandwich pieces. Her brother Bob eats 2 of the $\frac{1}{2}$-sandwich pieces.
   - What fraction of the 8 sandwiches does Alexia eat? _____
   - What fraction of the 8 sandwiches does Bob eat? _____
   - Altogether, what fraction of the 8 sandwiches do Alexia and Bob eat? _____
2. Consuela and her three friends order 2 pizzas. Consuela cuts each pizza into 8 equal slices. She saves 2 slices of pizza for her older brother. Then she and her friends each eat the same number of whole slices of pizza. What fraction of the 2 pizzas is left over?

   _____
3. **Stretch Your Thinking** Benjamin has 3 pies: 1 apple, 1 blueberry, and 1 cherry. He cuts the apple pie into 4 equal slices, the blueberry pie into 6 equal slices, and the cherry pie into 8 equal slices. Benjamin eats 1 slice of the apple pie and 1 slice of the cherry pie. His friend Lola eats 2 slices of the blueberry pie. Who eats the greater fraction of pie? How much more?

   _____
4. Write Math **Explain** how you solved Problem 2.

   _____

   _____

   _____

   _____

   _____

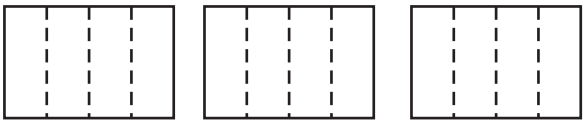
   _____

Name _____

Fraction Models and Division

Write and complete a division number sentence that is represented by the model. Use whole numbers for the dividend and the divisor. Then write a real-world problem that you can solve using the model and the corresponding number sentence.

1.



_____

_____

_____

2.

_____

_____

_____

_____

3. Write Math In Exercises 1 and 2, you wrote division sentences that are represented by the models. How did you decide what number to use as the dividend and what number to use as the divisor?

_____

_____

_____

_____

Name _____

Unknown Dividends and Divisors

Find the unknown dividend or divisor. Then use the letter of each unknown dividend or divisor to solve the riddle below.

1. $2 \div Y = 6$

$Y =$ _____

2. $\frac{1}{5} \div E = \frac{1}{10}$

$E =$ _____

3. $I \div \frac{1}{4} = 16$

$I =$ _____

4. $R \div 3 = \frac{1}{12}$

$R =$ _____

5. $4 \div H = 32$

$H =$ _____

6. $H \div \frac{1}{12} = 12$

$H =$ _____

7. $E \div \frac{1}{5} = 15$

$E =$ _____

8. $3 \div N = 15$

$N =$ _____

9. $7 \div T = 14$

$T =$ _____

10. $H \div \frac{1}{2} = 16$

$H =$ _____

11. $G \div \frac{1}{4} = 20$

$G =$ _____

12. $2 \div E = 12$

$E =$ _____

13. $\frac{1}{2} \div T = \frac{1}{14}$

$T =$ _____

14. $H \div \frac{1}{3} = 18$

$H =$ _____

Who invented fractions?

___	___	___	___	___		___	___	___		___	___	___	___	___	___		
$\frac{1}{8}$	$\frac{1}{6}$	$\frac{1}{5}$	$\frac{1}{4}$	$\frac{1}{3}$		$\frac{1}{2}$	1	2		3	4	5	6	7	8		

Name _____

What's the Story?

For each exercise, write a story problem that you can solve with the type of division equation described.

1. a whole number divided by a unit fraction, with a quotient of 4

_____

_____

_____

2. a unit fraction divided by a whole number, with a quotient of $\frac{1}{6}$

_____

_____

_____

3. a whole number divided by a unit fraction, with a quotient of 10

_____

_____

_____

4. a unit fraction divided by a whole number, with a quotient of $\frac{1}{12}$

_____

_____

_____

5. a whole number divided by a whole number, with a quotient of $\frac{3}{8}$

_____

_____

_____