

Sharing Equally

Use drawings to help you solve the problems. Solve each problem in more than one way. Show your work.



- ① Four friends shared 5 pizzas equally. How much pizza did each friend get?

_____ pizzas

One way:

Another way:

- ② Five kittens are sharing 6 cups of milk equally. How much milk does each kitten get?

_____ cups of milk

One way:

Another way:

Practice

- ③ Name the next 4 multiples of 7. 7, _____, _____, _____, _____
- ④ List all the factors of 18. _____
- ⑤ List all the factors of 18 that are prime. _____
- ⑥ List all the factor pairs of 40.

_____ and _____ ; _____ and _____ ;

_____ and _____ ; _____ and _____

Fraction Circles

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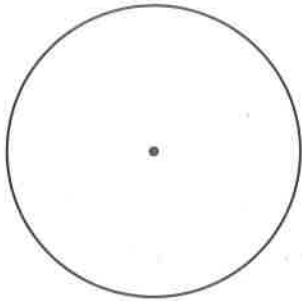
NAME _____

DATE _____

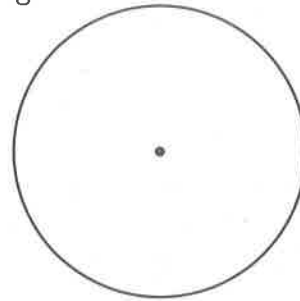
TIME _____



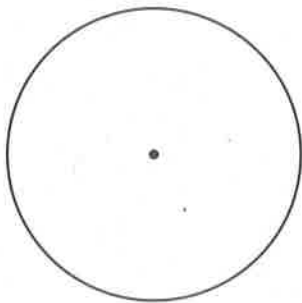
- ① Divide into 4 equal parts. Shade $\frac{1}{4}$.



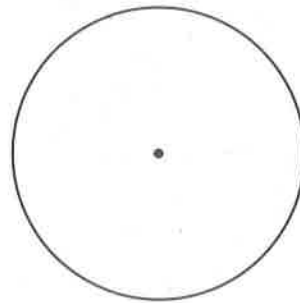
- ② Divide into 8 equal parts. Shade $\frac{2}{8}$.



- ③ Divide into 12 equal parts. Shade $\frac{3}{12}$.



- ④ Create your own. Divide into equal parts and shade a portion. Record the amount you shaded.



- ⑤ What patterns do you notice in Problems 1 through 3?

Practice

- ⑥ List the next 4 multiples of 5. 20, _____, _____, _____, _____
- ⑦ List all the factors of 48. _____
- ⑧ List the factors of 48 that are composite. _____

Finding Equivalent Fractions



Use the number lines to help you answer the following questions.

① Fill in the blank with = or \neq .

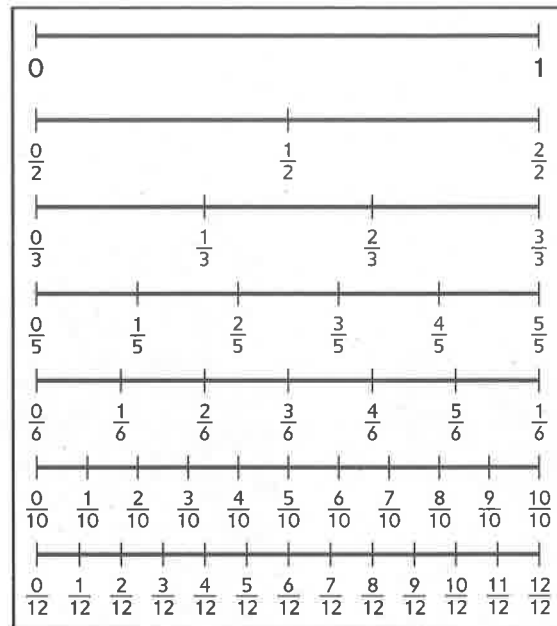
a. $\frac{2}{3}$ _____ $\frac{1}{3}$

b. $\frac{2}{6}$ _____ $\frac{1}{3}$

c. $\frac{2}{6}$ _____ $\frac{2}{5}$

d. $\frac{1}{5}$ _____ $\frac{2}{10}$

e. $\frac{2}{12}$ _____ $\frac{1}{6}$



② Fill in the missing numbers.

a. $\frac{1}{5} = \frac{\square}{10}$

b. $\frac{4}{12} = \frac{\square}{3}$

c. $\frac{5}{10} = \frac{\square}{2}$

d. $\frac{3}{6} = \frac{\square}{12}$

e. $\frac{4}{6} = \frac{\square}{3}$

③ Circle the number sentences that are NOT true.

a. $\frac{3}{12} = \frac{1}{4}$

b. $\frac{1}{2} = \frac{5}{10}$

c. $\frac{2}{6} = \frac{2}{5}$

d. $\frac{7}{10} = \frac{4}{6}$

e. $\frac{9}{10} = \frac{11}{12}$

Practice

Solve using U.S. traditional addition or subtraction.

④ _____ = 989 + 657

⑤ 3,314 + 4,719 = _____

⑥ 5,887 - 3,598 = _____

⑦ _____ = 2,004 - 1,716

Finding Equivalent Fractions

Family Note Today students learned about an **Equivalent Fractions Rule**, which can be used to rename any fraction as an equivalent fraction. The rule for multiplication states that if the numerator and denominator are multiplied by the same nonzero number, the result is a fraction that is equivalent to the original fraction.

For example, the fraction $\frac{1}{2}$ can be renamed as an infinite number of equivalent fractions. When you multiply the numerator 1 by 5, the result is 5. When you multiply the denominator 2 by 5, the result is 10.

$$\frac{1 \times 5}{2 \times 5} = \frac{5}{10}$$

This results in the number sentence $\frac{1}{2} = \frac{5}{10}$. If you multiplied both the numerator and denominator in $\frac{1}{2}$ by 3, the result would be $\frac{3}{6}$, which is also equal to $\frac{1}{2}$.

Fill in the boxes to complete the equivalent fractions.



Example: $\frac{1}{2} = \frac{3}{\boxed{6}}$

- ① $\frac{1}{2} = \frac{6}{\boxed{\quad}}$ ② $\frac{1}{4} = \frac{3}{\boxed{\quad}}$ ③ $\frac{1}{3} = \frac{2}{\boxed{\quad}}$ ④ $\frac{2}{3} = \frac{8}{\boxed{\quad}}$ ⑤ $\frac{1}{5} = \frac{\boxed{\quad}}{10}$
- ⑥ $\frac{2}{5} = \frac{\boxed{\quad}}{10}$ ⑦ $\frac{3}{4} = \frac{9}{\boxed{\quad}}$ ⑧ $\frac{5}{6} = \frac{10}{\boxed{\quad}}$ ⑨ $\frac{2}{\boxed{\quad}} = \frac{6}{9}$ ⑩ $\frac{4}{\boxed{\quad}} = \frac{8}{12}$

⑪ Name 3 equivalent fractions for $\frac{1}{2}$. _____

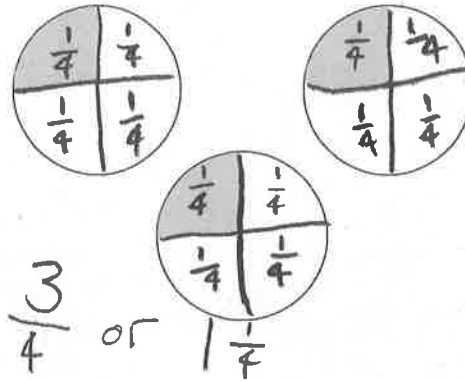
Practice

- ⑫ List all the factors of 56. _____
- ⑬ Write the factor pairs for 30.
 _____ and _____, _____ and _____, _____ and _____,
 _____ and _____
- ⑭ Is 30 prime or composite? _____

Sharing Veggie Pizza



- ① Karen and her 3 friends want to share 3 small veggie pizzas equally. Karen tried to figure out how much pizza each of the 4 children would get. She drew this picture and wrote two answers.



- a. Which of Karen's answers is correct? _____
- b. Draw on Karen's diagram to make it clear how the pizza should be distributed among the 4 children.
- ② Erin and her 7 friends want to share 6 small veggie pizzas equally. How much pizza will each of the 8 children get? _____
- ③ Who will get more pizza, Karen or Erin? _____
- Explain or show how you know.

Practice

- ④ List all the factors of 50. _____
- ⑤ Is 50 prime or composite? _____
- ⑥ Write the factor pairs for 75.
- _____ and _____
- _____ and _____
- _____ and _____

Solving Fraction Comparison Number Stories



Solve the problems below.

- ① Tenisha and Christa were each reading the same book. Tenisha said she was $\frac{3}{4}$ of the way done with it, and Christa said she was $\frac{6}{8}$ of the way finished.

Who has read more, or have they read the same amount? _____

How do you know? _____

- ② Heather and Jerry each bought an ice cream bar. Although the bars were the same size, they were different flavors. Heather ate $\frac{5}{8}$ of her ice cream bar, and Jerry ate $\frac{5}{10}$ of his.

Who ate more, or did they eat the same amount? _____

Write a number sentence to show this. _____

- ③ Howard's baseball team won $\frac{7}{10}$ of its games. Jermaine's team won $\frac{2}{5}$ of its games. They both played the same number of games.

Whose team won more games, or did they win the same amount? _____

How do you know? _____

- ④ Write your own fraction number story. Ask someone at home to solve it.

Practice

Write T for true or F for false.

⑤ $1,286 + 2,286 = 3,752$ _____

⑥ $9,907 - 9,709 = 200$ _____

⑦ $2,641 + 4,359 = 2,359 + 4,641$ _____

⑧ $2,345 - 198 = 2,969 - 822$ _____