MATH

Fraction word problems

Name _____ Date _____

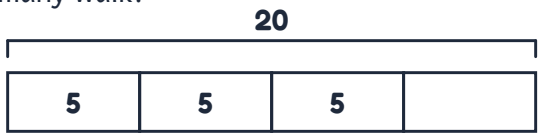
I can solve problems with fractions.

1 How to solve a word problem

1. **Read** Read the whole problem twice.
2. **Find** Find the question. Underline it.
3. **Draw** Draw a bar model or a picture.
4. **Solve** Pick + − × or ÷ and solve.
5. **Check** Does the answer make sense?

Example

3/4 of the 20 children walk to school. How many walk?



20 ÷ 4 = 5, 3 × 5 = 15 children

2 Your turn

Draw a bar model, then solve.

1. 5 cups of rice are put into servings of 1/3 cup each. How many servings are there?

Answer: _____

Draw it

2. A recipe uses 2 1/6 cups of flour and 2 1/6 cups of oats. How many cups is that in all?

Answer: _____

Draw it

How did I do? ☆ ☆ ☆

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One-step problems

Name _____ Date _____

I can choose the operation and solve a one-step problem.

1 Read, solve, write the answer

Write the unit too: apples, dollars, feet ...

1 Aisha walked 1/4 mile to the park and then 5/8 mile to the store. How far did Aisha walk in all?

Answer:

2 A ribbon is 3/8 yard long. Mia cuts off 1/4 yard. How long is the ribbon now?

Answer:

3 Sara runs 1/4 mile every day. How far does Sara run in 6 days?

Answer:

4 There are 20 students in a class. 3/4 of them walk to school. How many students walk to school?

Answer:

5 Hana ate 6/12 of a pizza and Sam ate 5/12 of the same pizza. How much of the pizza did they eat together?

Answer:

6 A jug holds 7/8 liter of juice. Ravi drinks 6/8 liter. How much juice is left in the jug?

Answer:

How did I do? ☆ ☆ ☆

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Pick the operation

Name _____ Date _____

I can tell which operation a problem needs.

1 Circle +, –, × or ÷, then solve

Solve in the box.

1. 3 pizzas are cut so each slice is 1/3 pizza. Slices? + – × ÷ ☐
2. 1/5 of 30 apples are green. How many are green? + – × ÷ ☐
3. Emma has 3/4 of a bar and eats 1/4. What is left? + – × ÷ ☐
4. 1/8 of a wall is red and 3/8 is blue. How much is painted? + – × ÷ ☐
5. A cup has 2/5 liter. 1/5 liter is spilled. How much is left? + – × ÷ ☐
6. Adam ate 1/8 of a pie, then 1/8 more. How much? + – × ÷ ☐

2 Write a number sentence, then solve

1 Ben has 2/3 of a cake left. Ben eats 1/2 of what is left. What fraction of the whole cake does Ben eat?

Number sentence: ☐ **Answer:** ☐

2 Zara has 20 marbles and gives 1/4 of them to a friend. How many marbles does Zara give away?

Number sentence: ☐ **Answer:** ☐

How did I do? ☆ ☆ ☆

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Two-step problems

Name _____ Date _____

I can solve a problem that takes two steps.

1 Two steps: plan, solve, check

Find what you need to know first.

1 Ali has 24 marbles. 5/6 of them are red and the rest are blue. How many marbles are blue?

Answer: _____

Step 1 · Step 2

2 A pizza is cut into 10 equal slices. Omar eats 4/10 of it and Ravi eats 3/10. What fraction of the pizza is left?

Answer: _____

Step 1 · Step 2

3 A rope is 5 yards long. Lily cuts off 3 pieces that are each 1/4 yard long. How much rope is left?

Answer: _____

Step 1 · Step 2

4 A book has 75 pages. Leo reads 3/5 of it on Monday and 3/5 of it on Tuesday. How many pages does Leo read in all?

Answer: _____

Step 1 · Step 2

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: fraction word problems

1 Page 1

Your turn: 1) 5 ÷ 1/3 = 15 (15 servings); 2) 2 1/6 + 2 1/6 = 4 1/3 (4 1/3 cups).

2 Page 2

One-step problems: 1) 1/4 + 5/8 = 7/8 (7/8 mile); 2) 3/8 − 1/4 = 1/8 (1/8 yard); 3) 6 × 1/4 = 6/4 (1 1/2 miles); 4) 3/4 × 20 = 15 (15 students); 5) 6/12 + 5/12 = 11/12 (11/12 of the pizza); 6) 7/8 − 6/8 = 1/8 (1/8 liter).

3 Page 3

Operation: 1) ÷: 3 ÷ 1/3 = 9; 2) ×: 1/5 × 30 = 6; 3) −: 3/4 − 1/4 = 1/2; 4) +: 1/8 + 3/8 = 1/2; 5) −: 2/5 − 1/5 = 1/5; 6) +: 1/8 + 1/8 = 1/4.

Number sentences: 1) 1/2 × 2/3 = 1/3 (1/3 of the cake); 2) 1/4 × 20 = 5 (5 marbles).

4 Page 4: two-step problems

Two-step: 1) 5/6 × 24 = 20, 24 − 20 = 4 (4 blue marbles); 2) 4/10 + 3/10 = 7/10, 1 − 7/10 = 3/10 (3/10 of the pizza); 3) 3 × 1/4 = 3/4, 5 − 3/4 = 4 1/4 (4 1/4 yards); 4) 3/5 + 3/5 = 6/5, 6/5 × 75 = 90 (90 pages).

5 Teaching tip

Watch for "of". In a fraction story, "of" almost always means multiply. Half of 8 is 1/2 × 8 = 4, and children can check that with counters.