



Fractions

Grade 5

Adding and subtracting

Like and unlike denominators, mixed numbers, and the word problems they show up in.

WHAT'S INSIDE

- 10 exercises with space to write
- Full answer key on the last page
- US Letter, black and white, one page per section



Adding and subtracting

Grade 5

Name: _____

Date: _____

Remember

You can only add or subtract fractions once the denominators match, because the pieces have to be the same size. With unlike denominators, rewrite both fractions using a common denominator first. The denominator never gets added: $\frac{1}{4} + \frac{1}{4}$ is $\frac{2}{4}$, not $\frac{2}{8}$.

1. Add. Give each answer in simplest form.

$$\frac{1}{5} + \frac{2}{5} = \quad \frac{3}{8} + \frac{3}{8} = \quad \frac{5}{12} + \frac{1}{12} =$$

2. Subtract.

$$\frac{7}{9} - \frac{2}{9} = \quad \frac{5}{6} - \frac{1}{6} = \quad \frac{11}{12} - \frac{5}{12} =$$

3. Rewrite with a common denominator, then add.

$$\frac{1}{2} + \frac{1}{3} = \quad \frac{1}{4} + \frac{2}{5} =$$

4. Subtract with unlike denominators.

$$\frac{3}{4} - \frac{1}{6} = \quad \frac{2}{3} - \frac{1}{4} =$$

5. Add the mixed numbers.

$$1 \frac{1}{4} + 2 \frac{1}{2} =$$

6. A board is $\frac{3}{4}$ of a foot long. You cut off $\frac{1}{3}$ of a foot. How much is left?



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7. You run $\frac{1}{2}$ mile on Monday and $\frac{3}{8}$ mile on Tuesday. How far in total?

8. Explain the mistake: a student writes $\frac{1}{3} + \frac{1}{3} = \frac{2}{6}$.

9. A pitcher holds 2 cups of juice. You pour out $\frac{3}{4}$ cup. How much is left?

10. Which is greater, $\frac{5}{8} + \frac{1}{4}$ or 1? By how much?



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1. $3/5$; $6/8 = 3/4$; $6/12 = 1/2$
2. $5/9$; $4/6 = 2/3$; $6/12 = 1/2$
3. $3/6 + 2/6 = 5/6$; $5/20 + 8/20 = 13/20$
4. $9/12 - 2/12 = 7/12$; $8/12 - 3/12 = 5/12$
5. $1 \frac{1}{4} + 2 \frac{2}{4} = 3 \frac{3}{4}$.
6. $9/12 - 4/12 = 5/12$ of a foot.
7. $4/8 + 3/8 = 7/8$ mile.
8. They added the denominators too. The pieces are still thirds, so the answer is $2/3$.
9. $2 - 3/4 = 1 \frac{1}{4}$ cups.
10. $5/8 + 2/8 = 7/8$, which is less than 1 by $1/8$.