Fraction Word Problems

Spot mistakes, reason, and work backward

Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

Add fractions when joining amounts; subtract when taking away or finding a missing part. A $\frac{7}{8}$-m cord with $\frac{3}{8}$ m used leaves $\frac{4}{8} = \frac{1}{2}$ m. For $1\frac{1}{8} - \frac{3}{8}$, regroup or use $\frac{9}{8} - \frac{3}{8} = \frac{6}{8}$.

Worked example

A jug gets $\frac{3}{8}$ L, then $\frac{2}{8}$ L. How much is in the jug?

1. The pieces are all $\frac{1}{8}$ L.
2. Combine the counts: $3 + 2 = 5$, so $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$.
3. Rename if possible: $\frac{5}{8} = \frac{5}{8}$.
Answer: $\frac{5}{8}$ L.

Practice Problems

Show your thinking.

1. A route is $\frac{9}{10}$ km. After the first section, $\frac{4}{10}$ km remains. Find the first section.

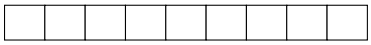
2. A bottle held an unknown amount. After $\frac{7}{8}$ L was added it held $1\frac{5}{8}$ L. Find the starting amount.

3. A rope has $\frac{5}{6}$ m left after $1\frac{2}{6}$ m was cut off. Find its original length.

4. A baker needs $1\frac{5}{12}$ cups and has $\frac{9}{12}$ cup. How much more is needed?

5. A tank holds $1\frac{1}{4}$ L and loses $\frac{3}{4}$ L. A report says $1\frac{2}{4}$ L remains. Repair it.

6. A bar represents $\frac{9}{10}$ km. Shade a first section of $\frac{4}{10}$ km and name the second section.



7. A recipe needs $\frac{7}{8}$ cup. There is $\frac{2}{8}$ cup in a bowl. How much more is needed?

8. One child says to add to find a missing part; another subtracts from the total. Use $\square + \frac{2}{6} = \frac{5}{6}$ to show both checks.

Answer Key

1. $\frac{1}{2}$ km.
2. $\frac{3}{4}$ L.
3. $2\frac{1}{6}$ m.
4. $\frac{2}{3}$ cups.
5. $\frac{2}{4} = \frac{1}{2}$ L.
6. $\frac{5}{10} = \frac{1}{2}$ km.
7. $\frac{5}{8}$ cup.
8. The missing part is $\frac{3}{6}$.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The pieces are all $\frac{1}{10}$ km.
2. Combine the counts: $9 - 4 = 5$, so $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$.
3. Rename if possible: $\frac{5}{10} = \frac{1}{2}$.

Problem 2

1. Rename the mixed numbers: $1\frac{5}{8} = \frac{13}{8}$ and $\frac{7}{8} = \frac{7}{8}$.
2. $\frac{13}{8} - \frac{7}{8} = \frac{6}{8}$ because $13 - 7 = 6$.
3. $6 = 0 \times 8 + 6$, so the result is $\frac{3}{4}$.

Problem 3

1. Rename the mixed numbers: $\frac{5}{6} = \frac{5}{6}$ and $1\frac{1}{3} = \frac{8}{6}$.
2. $\frac{5}{6} + \frac{8}{6} = \frac{13}{6}$ because $5 + 8 = 13$.
3. $13 = 2 \times 6 + 1$, so the result is $2\frac{1}{6}$.

Problem 4

1. Rename the mixed numbers: $1\frac{5}{12} = \frac{17}{12}$ and $\frac{3}{4} = \frac{9}{12}$.
2. $\frac{17}{12} - \frac{9}{12} = \frac{8}{12}$ because $17 - 9 = 8$.
3. $8 = 0 \times 12 + 8$, so the result is $\frac{2}{3}$.

Problem 5

1. $1\frac{1}{4} = \frac{5}{4}$ L.
2. $\frac{5}{4} - \frac{3}{4} = \frac{2}{4} = \frac{1}{2}$ L.
3. $\frac{1}{2} + \frac{3}{4} = 1\frac{1}{4}$ L checks it.

Problem 6

1. The bar has 9 equal cells, each $\frac{1}{10}$ km. Shade four adjacent cells from the left.
2. The second section uses $9 - 4 = 5$ parts.
3. $\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$ km checks the split.

Problem 7

1. The target has 7 eighth-cups and the bowl has 2.
2. $7 - 2 = 5$ eighth-cups are missing.
3. $\frac{2}{8} + \frac{5}{8} = \frac{7}{8}$ cup checks it.

Problem 8

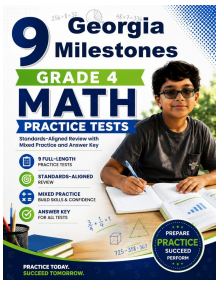
1. Subtract the known part: $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$.
2. Add to check: $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$.
3. Subtraction finds the part; addition verifies the complete total.

TESTINAR

Keep Building Grade 4 Math Skills

Choose the practice book matched to your state assessment and turn worksheet practice into a complete test-prep plan.

All Grade 4 books



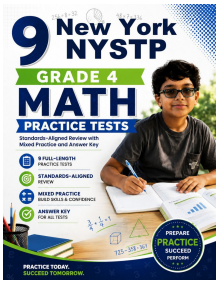
GEORGIA MILESTONES

9 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 9 printable practice tests.

Printable eBook • Instant PDF access

View eBook



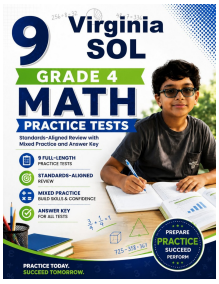
NEW YORK NYSTP

9 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 9 printable practice tests.

Printable eBook • Instant PDF access

View eBook



VIRGINIA SOL

9 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 9 printable practice tests.

Printable eBook • Instant PDF access

View eBook

Need a different state?
Testinar has Grade 4 math practice books for state assessments across the country.

TESTINAR.COM/GRADES/4