Fraction Word Problems

Explore ideas and representations

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 walk covers $\frac{3}{10}$ km then $\frac{4}{10}$ km. Find the distance.

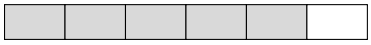
2. A ribbon is $\frac{7}{8}$ m. Cut off $\frac{2}{8}$ m. Find the length left.

3. A cook uses $\frac{5}{6}$ cup flour in one mix and $\frac{4}{6}$ cup in another. Find the total.

4. A jug contains $\frac{11}{12}$ L and pours out $\frac{5}{12}$ L. How much remains?

5. A child adds the denominators for $\frac{3}{8}$ L and $\frac{1}{8}$ L, reporting $\frac{4}{16}$ L. Fix the total.

6. Draw a bar for a $\frac{5}{6}$-m path with $\frac{2}{6}$ m walked. Find the part not yet walked.



7. A $\frac{7}{10}$-L mixture includes $\frac{3}{10}$ L juice and some water. Find the water.

8. Explain why a $\frac{4}{8}$-m board plus a $\frac{3}{8}$-m board does not reach 1 m.

Answer Key

1. $\frac{7}{10}$ km.
2. $\frac{5}{8}$ m.
3. $\frac{3}{2}$ cups.
4. $\frac{1}{2}$ L.
5. $\frac{4}{8} = \frac{1}{2}$ L.
6. $\frac{3}{6} = \frac{1}{2}$ m.
7. $\frac{2}{5}$ L.
8. It is $\frac{1}{8}$ m short.

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: $3 + 4 = 7$, so $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$.
3. Rename if possible: $\frac{7}{10} = \frac{7}{10}$.

Problem 2

1. The pieces are all $\frac{1}{8}$ m.
2. Combine the counts: $7 - 2 = 5$, so $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$.
3. Rename if possible: $\frac{5}{8} = \frac{5}{8}$.

Problem 3

1. The pieces are all $\frac{1}{6}$ cups.
2. Combine the counts: $5 + 4 = 9$, so $\frac{5}{6} + \frac{4}{6} = \frac{9}{6}$.
3. Rename if possible: $\frac{9}{6} = 1\frac{1}{2}$.

Problem 4

1. The pieces are all $\frac{1}{12}$ L.
2. Combine the counts: $11 - 5 = 6$, so $\frac{11}{12} - \frac{5}{12} = \frac{6}{12}$.
3. Rename if possible: $\frac{6}{12} = \frac{1}{2}$.

Problem 5

1. Both measurements use eighth-liter parts.
2. $3 + 1 = 4$ eighth-liters are combined.
3. $\frac{4}{8} = \frac{1}{2}$ L; the piece size did not change.

Problem 6

1. Show 5 sixths as the whole path being considered.
2. Remove 2 of the 5 sixths: $5 - 2 = 3$.
3. The remaining length is $\frac{3}{6} = \frac{1}{2}$ m.

Problem 7

1. The pieces are all $\frac{1}{10}$ L.
2. Combine the counts: $7 - 3 = 4$, so $\frac{7}{10} - \frac{3}{10} = \frac{4}{10}$.
3. Rename if possible: $\frac{4}{10} = \frac{2}{5}$.

Problem 8

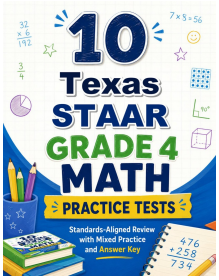
1. The total is $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$ m.
2. One meter is $\frac{8}{8}$ m.
3. $\frac{8}{8} - \frac{7}{8} = \frac{1}{8}$ m remains to reach the goal.

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



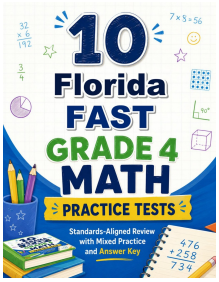
TEXAS STAAR

10 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 10 printable practice tests.

Printable eBook • Instant PDF access

View eBook



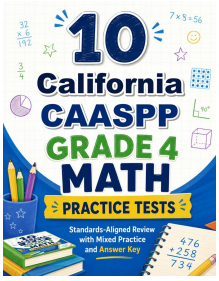
FLORIDA FAST

10 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 10 printable practice tests.

Printable eBook • Instant PDF access

View eBook



CALIFORNIA CAASPP

10 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 10 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