Fractions with Denominators 10 and 100

Apply the skill to decisions and designs

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

QUICK REVIEW

Each tenth is 10 hundredths: $\frac{1}{10} = \frac{10}{100}$. Multiply both parts by 10 to rename tenths as hundredths. Before adding, rename the fractions so they count parts of the same size.

Worked example

Add $\frac{14}{10} + \frac{6}{100}$.

1. $14 \times 10 = 140$, so $\frac{14}{10} = \frac{140}{100}$.

2. Add the hundredths: $140 + 6 = 146$.

3. The result is $\frac{146}{100}$.

Answer: $\frac{146}{100}$.

Practice Problems

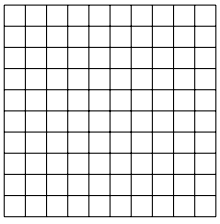
Show your thinking.

1. A $\frac{7}{10}$-L design is marked in hundredths. Rename its volume.

2. Design a $\frac{63}{100}$-L mix from $\frac{4}{10}$ L juice and water. Find the water amount.

3. A pattern shades $\frac{2}{10}$ of a 100-cell grid. A child shades 2 cells. Repair the cell count.

4. Shade $\frac{3}{10}$ plus $\frac{8}{100}$ of this grid. State the total fraction.



100 equal cells

5. An order needs $\frac{9}{10}$ m of trim. There is $\frac{87}{100}$ m. Find the shortage.

6. Name $\frac{110}{100}$ and $\frac{50}{100}$ as tenths, then add them.

7. Explain why $\frac{6}{10}$ L and $\frac{60}{100}$ L need the same bottle size.

8. A $\frac{120}{100}$-m strip is labeled only in tenths. Find the matching length in tenths of a meter.

Answer Key

1. $\frac{70}{100}$ L.
2. $\frac{23}{100}$ L.
3. 20 cells.
4. $\frac{38}{100}$.
5. $\frac{3}{100}$ m.
6. $\frac{11}{10} + \frac{5}{10} = \frac{16}{10}$.
7. They are the same volume.
8. $\frac{12}{10}$ m.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. One tenth equals 10 hundredths because $100 \div 10 = 10$.
2. Rename both parts: $7 \times 10 = 70$ and $10 \times 10 = 100$.
3. The measurement stays the same: $\frac{7}{10}$ L equals $\frac{70}{100}$ L.

Problem 2

1. $\frac{4}{10} = \frac{40}{100}$ L.
2. $63 - 40 = 23$ hundredths are needed.
3. $\frac{40}{100} + \frac{23}{100} = \frac{63}{100}$ L verifies the plan.

Problem 3

1. One tenth of the grid is $100 \div 10 = 10$ cells.
2. Two tenths are $2 \times 10 = 20$ cells.
3. The child needs $20 - 2 = 18$ more shaded cells.

Problem 4

1. $\frac{3}{10} = \frac{30}{100}$, so shade 30 cells first.
2. Shade 8 additional cells: $30 + 8 = 38$.
3. The shaded amount is $\frac{38}{100}$.

Problem 5

1. The target is $\frac{9}{10} = \frac{90}{100}$ m.
2. The available trim is $\frac{87}{100}$ m.
3. $90 - 87 = 3$ hundredths of a meter are missing.

Problem 6

1. $110 \div 10 = 11$ tenths and $50 \div 10 = 5$ tenths.
2. $11 + 5 = 16$ tenths.
3. $\frac{16}{10} = \frac{160}{100}$ checks the total.

Problem 7

1. Each tenth contains 10 hundredths.
2. Six tenths contain $6 \times 10 = 60$ hundredths.
3. $\frac{6}{10} = \frac{60}{100}$ L, so neither amount is larger.

Problem 8

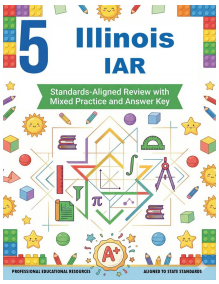
1. One tenth equals 10 hundredths because $100 \div 10 = 10$.
2. Rename both parts: $120 \div 10 = 12$ and $100 \div 10 = 10$.
3. The measurement stays the same: $\frac{120}{100}$ m equals $\frac{12}{10}$ m.

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



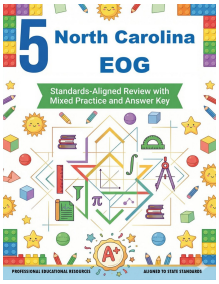
ILLINOIS IAR

5 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 5 printable practice tests.

Printable eBook • Instant PDF access

View eBook



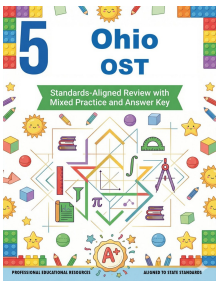
NORTH CAROLINA EOG

5 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 5 printable practice tests.

Printable eBook • Instant PDF access

View eBook



OHIO OST

5 Full-Length Math Practice Tests

Build Grade 4 accuracy, confidence, and test stamina with 5 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