Fractions with Denominators 10 and 100

Spot mistakes, reason, and work backward

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.

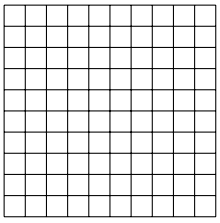
1. Regroup $\frac{90}{100}$ into tenths.

2. Find a in $\frac{a}{10} = \frac{20}{100}$.

3. Correct the sum $\frac{5}{10} + \frac{6}{100} = \frac{11}{110}$.

4. Find the missing hundredths in $\frac{3}{10} + \frac{\square}{100} = \frac{47}{100}$.

5. Shade $\frac{6}{10}$ of this grid. State the number of shaded cells.



100 equal cells

6. Is $\frac{80}{100}$ equal to $\frac{8}{10}$ or $\frac{8}{100}$? Explain.

7. Write $\frac{135}{100}$ as tenths plus leftover hundredths, using as many tenths as possible.

8. A ribbon measures $\frac{72}{100}$ m. A $\frac{5}{10}$-m part is removed. Find the remainder in hundredths.

Answer Key

1. $\frac{9}{10} = \frac{90}{100}$.
2. $\frac{2}{10} = \frac{20}{100}$.
3. $\frac{56}{100}$.
4. 17.
5. 60 cells.
6. $\frac{8}{10}$.
7. $\frac{13}{10} + \frac{5}{100}$.
8. $\frac{22}{100}$ 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. 9 tenths therefore equals $9 \times 10 = 90$ hundredths.
3. Check: $90 \div 10 = 9$ and $100 \div 10 = 10$, so the fractions are equivalent.

Problem 2

1. One tenth equals 10 hundredths because $100 \div 10 = 10$.
2. 2 tenths therefore equals $2 \times 10 = 20$ hundredths.
3. Check: $20 \div 10 = 2$ and $100 \div 10 = 10$, so the fractions are equivalent.

Problem 3

1. Rename $\frac{5}{10} = \frac{50}{100}$.
2. Add like-sized parts: $50 + 6 = 56$.
3. The denominator stays 100, giving $\frac{56}{100}$.

Problem 4

1. $\frac{3}{10} = \frac{30}{100}$.
2. The missing count is $47 - 30 = 17$.
3. $\frac{30}{100} + \frac{17}{100} = \frac{47}{100}$ checks it.

Problem 5

1. The grid has 100 cells in 10 equal rows.
2. Each tenth is one row of 10 cells.
3. Six tenths shade $6 \times 10 = 60$ cells.

Problem 6

1. Divide 80 and 100 by 10: $\frac{80}{100} = \frac{8}{10}$.
2. $\frac{8}{100}$ has only 8 hundredths.
3. $80 - 8 = 72$ hundredths separate those amounts.

Problem 7

1. $135 = 13 \times 10 + 5$.
2. Thirteen groups of 10 hundredths make 13 tenths.
3. $\frac{13}{10} + \frac{5}{100} = \frac{135}{100}$.

Problem 8

1. $\frac{5}{10} = \frac{50}{100}$ m.
2. $72 - 50 = 22$ hundredths remain.
3. $\frac{22}{100} + \frac{50}{100} = \frac{72}{100}$ m checks it.

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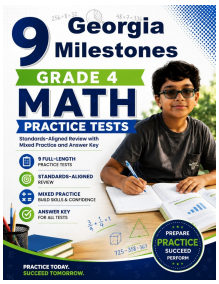

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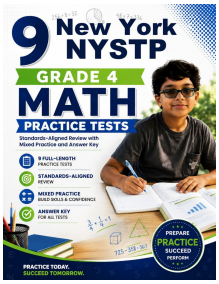

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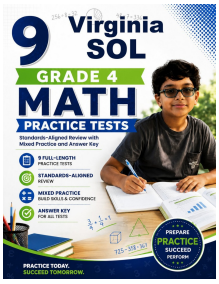

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