Decimal Notation for Fractions

Spot mistakes, reason, and work backward

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

QUICK REVIEW

The first decimal place is tenths; the second is hundredths. $\frac{7}{10} = 0.7$, $\frac{7}{100} = 0.07$, and $\frac{43}{100} = 0.43$. A zero in tenths keeps seven hundredths from becoming seven tenths.

Worked example

Write $\frac{36}{100}$ as a decimal and explain its digits.

1. The fraction $\frac{36}{100}$ counts 36 hundredths.

2. Regroup: $36 = 0 \times 100 + 3 \times 10 + 6$ hundredths.

3. Write 0 before the decimal point and 3 in tenths and 6 in hundredths: 0.36.

Answer: 0.36.

Practice Problems

Show your thinking.

1. Find the fraction in hundredths represented by 0.06.

2. Write 0.8 as a fraction in tenths.

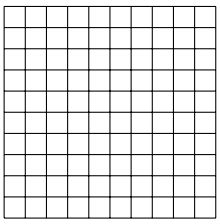
3. Rename $\frac{104}{100}$ using a decimal point.

4. Write the hundredths fraction equal to 0.70.

5. A child writes $0.42 = \frac{4}{10} + \frac{2}{10}$. Repair the second fraction.

6. Find a decimal in hundredths with 3 tenths and 8 hundredths. Write its fraction.

7. Shade 0.16 of this grid. State the shaded fraction.



100 equal cells

8. A scale shows 1.25 kg. Record this as a fraction in hundredths of a kilogram.

Answer Key

1. $\frac{6}{100}$.
2. $\frac{8}{10}$.
3. 1.04.
4. $\frac{70}{100}$.
5. $0.42 = \frac{4}{10} + \frac{2}{100}$.
6. $0.38 = \frac{38}{100}$.
7. $\frac{16}{100}$.
8. $\frac{125}{100}$ kg.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The digits of 0.06 show 0 whole, 0 tenths, and 6 hundredths.
2. Count hundredths: $0 \times 100 + 0 \times 10 + 6 = 6$.
3. Write 6 hundredths as $\frac{6}{100}$.

Problem 2

1. In 0.8, the whole part is 0 and the tenths digit is 8.
2. Count tenths: $0 \times 10 + 8 = 8$.
3. Write 8 tenths as $\frac{8}{10}$.

Problem 3

1. The fraction $\frac{104}{100}$ counts 104 hundredths.
2. Regroup: $104 = 1 \times 100 + 0 \times 10 + 4$ hundredths.
3. Write 1 before the decimal point and 0 in tenths and 4 in hundredths: 1.04.

Problem 4

1. The digits of 0.70 show 0 whole, 7 tenths, and 0 hundredths.
2. Count hundredths: $0 \times 100 + 7 \times 10 + 0 = 70$.
3. Write 70 hundredths as $\frac{70}{100}$.

Problem 5

1. The digit 4 is in tenths: $\frac{4}{10} = 0.4$.
2. The digit 2 is in hundredths: $\frac{2}{100} = 0.02$.
3. $0.4 + 0.02 = 0.42$; using 0.2 would give 0.6.

Problem 6

1. Three tenths contribute $\frac{30}{100}$.
2. Add $\frac{8}{100}$ to get $\frac{38}{100}$.
3. The tens and ones digits of 38 hundredths are $3, 8$, giving 0.38.

Problem 7

1. 0.16 means 1 tenth and 6 hundredths.
2. One tenth is 10 cells; add 6 cells for 16.
3. Shade 16 of 100 cells to show $\frac{16}{100}$.

Problem 8

1. The digits of 1.25 show 1 whole, 2 tenths, and 5 hundredths.
2. Count hundredths: $1 \times 100 + 2 \times 10 + 5 = 125$.
3. Write 125 hundredths as $\frac{125}{100}$ kg.

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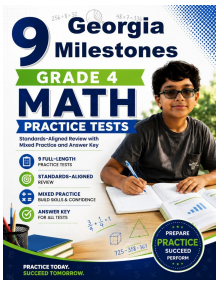

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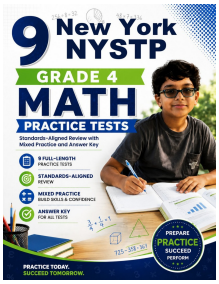

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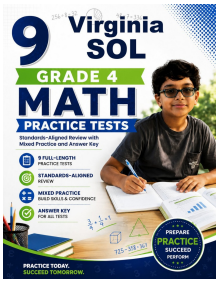

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