

Name _____ Date _____

Decimals Through Ten-Thousandths

(pages 95–98)

Decimals are another way to write fractions when the denominators are 10, 100, 1,000, and so on. You use **place-value** positions to name decimals.

Writing a Decimal	To write $\frac{14}{100}$ as a decimal, write 14 in a place-value chart (one digit in each place) so that it ends in the hundredths place. The decimal is 0.14.
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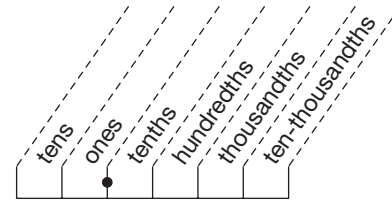
EXAMPLES

A Use the place-value chart at the right to help you write

$$\frac{23}{1,000}$$

Write the digits 2 and 3 so that the 3 is in the thousandths place.

Fill in zeroes to the left through the ones place: $\frac{23}{1,000}$ is 0.023



B Write 0.0012 in words.

The 2 is in the ten-thousandths place. 0.0012 is twelve ten-thousandths.

Try These Together

1. Write thirty and 3 hundredths as a decimal.

HINT: The word "and" tells you the location of the decimal point.

2. Write $52\frac{4}{1,000}$ as a decimal.

HINT: Write the whole number part (52) starting in the tens place. Use zeros to fill in the tenths and hundredths places.

PRACTICE

Write each fraction or mixed number as a decimal.

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|----------------------|----------------------|----------------------|----------------------|
| 3. $\frac{5}{10}$ | 4. $\frac{8}{100}$ | 5. $\frac{6}{10}$ | 6. $\frac{7}{1,000}$ |
| 7. $1\frac{2}{10}$ | 8. $5\frac{2}{100}$ | 9. $\frac{3}{1,000}$ | 10. $2\frac{3}{10}$ |
| 11. $\frac{32}{100}$ | 12. $17\frac{1}{10}$ | 13. $6\frac{5}{100}$ | 14. $\frac{65}{100}$ |

Write each expression as a decimal.

15. five hundredths 16. eighty-five thousandths 17. two tenths
18. **Saving Money** Alex saves \$1.25 of his allowance every week. Write \$1.25 in words.
19. **Health** A human's normal body temperature is ninety-eight and six tenths degrees. Write ninety-eight and six tenths as a decimal.



20. Standardized Test Practice Which decimal represents eight and nine hundredths?

- A** 0.89 **B** 8.9 **C** 8.09 **D** 89.9

Answers: 1. 30.03 2. 52.004 3. 0.5 4. 0.08 5. 0.6 6. 0.007 7. 1.2 8. 5.02 9. 0.003 10. 2.3 11. 0.32 12. 17.1 13. 6.05 14. 0.65 15. 0.05 16. 0.085 17. 0.2 18. one and twenty-five hundredths 19. 98.6 20. C