

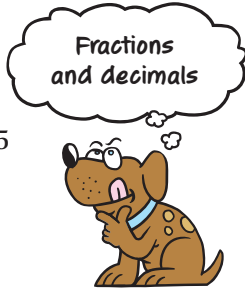
Key Concept and Vocabulary

$$\frac{1}{10} = 0.1$$

$$\frac{86}{100} = 0.86$$

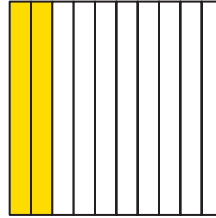
$$1\frac{216}{1,000} = 1.216$$

$$\frac{25}{100} = \frac{1}{4} = 0.25$$

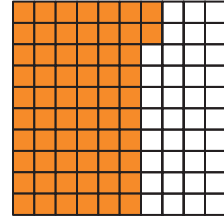


Visual Models

$$\frac{2}{10} = 0.2$$



$$\frac{62}{100} = 0.62$$



Skill Examples

1. $\frac{6}{10} = 0.6$

2. $1\frac{73}{100} = 1.73$

3. $3.8 = 3\frac{8}{10}$

4. $0.05 = \frac{5}{100}$

5. $0.875 = \frac{875}{1,000}$

6. $\frac{4}{5} = \frac{4 \cdot 2}{5 \cdot 2} = \frac{8}{10} = 0.8$

Application Example

7. You put 16.75 gallons of gas in your car. Write this decimal as a mixed number.

$$16.75 = 16 + 0.75 = 16\frac{75}{100}$$

• You put $16\frac{75}{100}$ gallons of gas in your car.



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Check your answers at BigIdeasMath.com.

Write the fraction or mixed number as a decimal.

8. $\frac{7}{10} =$ _____

9. $4\frac{9}{10} =$ _____

10. $\frac{17}{100} =$ _____

11. $12\frac{31}{100} =$ _____

12. $\frac{109}{1,000} =$ _____

13. $6\frac{48}{1,000} =$ _____

14. $\frac{3}{5} =$ _____

15. $\frac{4}{25} =$ _____

Write the decimal as a fraction or mixed number.

16. $0.4 =$ _____

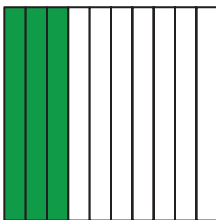
17. $0.35 =$ _____

18. $1.1 =$ _____

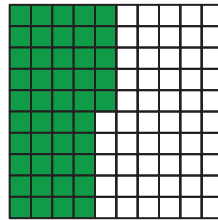
19. $0.095 =$ _____

Write the number represented by the model as a decimal and as a fraction.

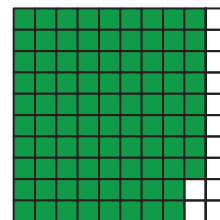
20. _____ = _____



21. _____ = _____



22. _____ = _____



23. **GAS** You put 9.25 gallons of gas in your car. Write this decimal as a mixed number. _____

24. **MULTIPLE FORMS** Write the decimal 0.5 in two ways. One with a denominator of 10 and one with a denominator of 100. _____