

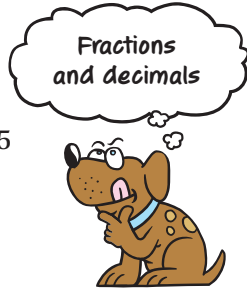
Key Concept and Vocabulary

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

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

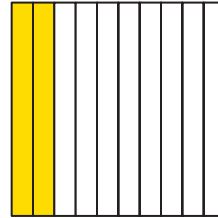
$$1 \frac{216}{1,000} = 1.216$$

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

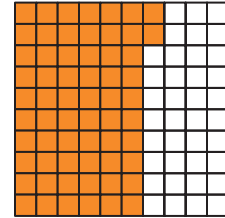


Visual Models

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



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



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. $\frac{7}{10} = \underline{0.7}$

9. $4 \frac{9}{10} = \underline{4.9}$

10. $\frac{17}{100} = \underline{0.17}$

11. $12 \frac{31}{100} = \underline{12.31}$

12. $\frac{109}{1,000} = \underline{0.109}$

13. $6 \frac{48}{1,000} = \underline{6.048}$

14. $\frac{3}{5} = \underline{0.6}$

15. $\frac{4}{25} = \underline{0.16}$

Write the decimal as a fraction or mixed number.

16. $0.4 = \underline{\frac{4}{10}}$

17. $0.35 = \underline{\frac{35}{100}}$

18. $1.1 = \underline{1 \frac{1}{10}}$

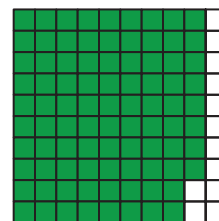
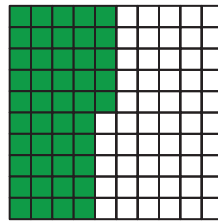
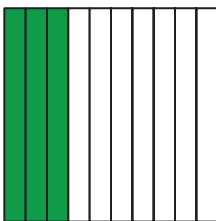
19. $0.095 = \underline{\frac{95}{1,000}}$

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

20. $\underline{0.3} = \underline{\frac{3}{10}}$

21. $\underline{0.45} = \underline{\frac{45}{100}}$

22. $\underline{0.88} = \underline{\frac{88}{100}}$



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

$$\underline{9 \frac{25}{100}}$$

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

_____ $\underline{\frac{5}{10}}, \underline{\frac{50}{100}}$