

REVIEW: Fractions and Decimals

Name _____

Key Concept and Vocabulary

$$\frac{1}{10} = 0.1 \quad \frac{1}{5} = 0.2 \quad \frac{2}{5} = 0.4$$

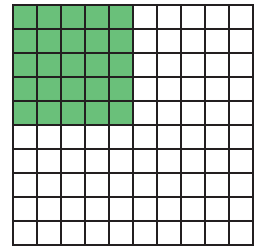
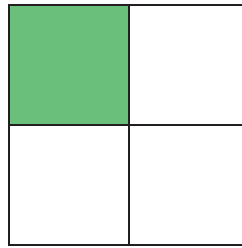
$$\frac{1}{4} = 0.25 \quad \frac{1}{2} = 0.5 \quad \frac{3}{4} = 0.75$$

$$\frac{1}{8} = 0.125 \quad \frac{3}{8} = 0.375 \quad \frac{5}{8} = 0.625$$



Visual Model

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



Skill Examples

1. $0.6 = \frac{6}{10} = \frac{3}{5}$

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

3. $0.875 = \frac{875}{1000} = \frac{7 \cdot 125}{8 \cdot 125} = \frac{7}{8}$

4. $\frac{1}{3} = 0.333... = 0.\overline{3}$ $3 \overline{)1.0000...}$

Application Example

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

$$16.75 = 16 + 0.75 = 16\frac{3}{4}$$



- You put $16\frac{3}{4}$ gallons of gas in your car.

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Check your answers at BigIdeasMath.com.

Write the fraction as a decimal.

6. $\frac{3}{4} = \underline{0.75}$

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

8. $\frac{3}{25} = \underline{0.12}$

9. $\frac{7}{20} = \underline{0.35}$

10. $\frac{19}{100} = \underline{0.19}$

11. $\frac{11}{50} = \underline{0.22}$

12. $\frac{2}{3} = \underline{0.\overline{6}}$

13. $\frac{1}{6} = \underline{0.1\overline{6}}$

Write the decimal as a fraction.

14. $0.4 = \underline{\frac{2}{5}}$

15. $0.35 = \underline{\frac{7}{20}}$

16. $0.6 = \underline{\frac{3}{5}}$

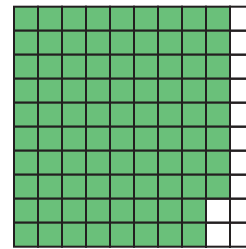
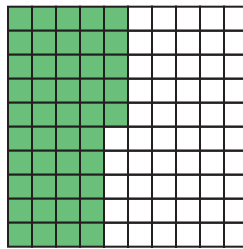
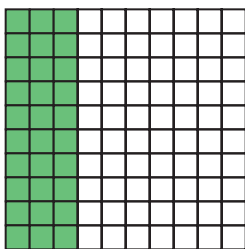
17. $1.5 = \underline{\frac{3}{2}}$

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

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

19. $\underline{0.45} = \underline{\frac{9}{20}}$

20. $\underline{0.88} = \underline{\frac{22}{25}}$



21. **GAS** You put 9.25 gallons of gas in your car. Write this decimal as a mixed number. $\underline{9\frac{1}{4}}$

22. **MULTIPLE FORMS** Write the decimal 0.35 in two ways. One with a denominator of 100 and one with a denominator of 1000. $\underline{\frac{35}{100}; \frac{350}{1000}}$