

REVIEW: Fractions and Decimals

Name _____

Key Concept and Vocabulary

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

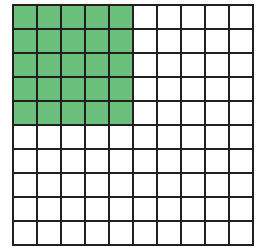
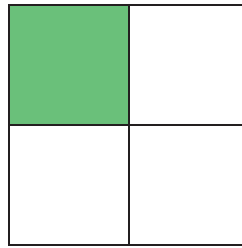
$$\frac{1}{4} = 0.25 \quad \frac{1}{2} = 0.5 \quad \frac{3}{4} = 0.75$$

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



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

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

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. $\frac{3}{4} =$ _____

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

8. $\frac{3}{25} =$ _____

9. $\frac{7}{20} =$ _____

10. $\frac{19}{100} =$ _____

11. $\frac{11}{50} =$ _____

12. $\frac{2}{3} =$ _____

13. $\frac{1}{6} =$ _____

Write the decimal as a fraction.

14. $0.4 =$ _____

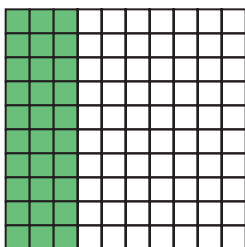
15. $0.35 =$ _____

16. $0.6 =$ _____

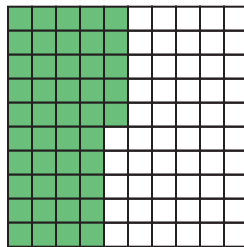
17. $1.5 =$ _____

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

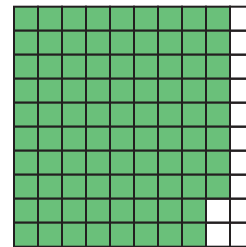
18. _____ = _____



19. _____ = _____



20. _____ = _____



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

22. **MULTIPLE FORMS** Write the decimal 0.35 in two ways. One with a denominator of 100 and one with a denominator of 1000. _____

REVIEW: Adding and Subtracting Decimals

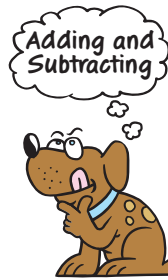
Name _____

Key Concept and Vocabulary

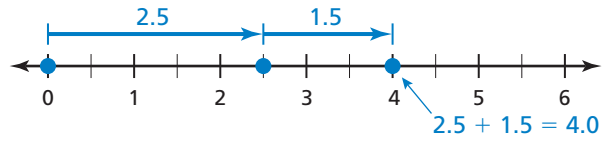
$$\begin{array}{r} 5.7 \\ + 3.36 \\ \hline 9.06 \end{array}$$

$$\begin{array}{r} 12.72 \\ - 3.84 \\ \hline 8.88 \end{array}$$

Align on decimal point.



Visual Model



Skill Examples

1.
$$\begin{array}{r} 134.12 \\ + 25.485 \\ \hline 159.605 \end{array}$$

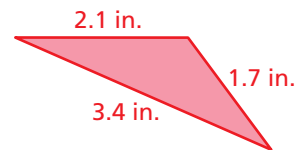
2.
$$\begin{array}{r} 0.135 \\ + 0.14 \\ \hline 0.275 \end{array}$$

3.
$$\begin{array}{r} 32.000 \\ - 9.451 \\ \hline 22.549 \end{array}$$

4.
$$\begin{array}{r} 1.405 \\ - 0.55 \\ \hline 0.855 \end{array}$$

Application Example

5. Find the perimeter of the triangle.



$$2.1 + 1.7 + 3.4 = 7.2$$

••• The perimeter is 7.2 inches.

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Check your answers at BigIdeasMath.com.

Find the sum or difference.

6. $4.75 + 3.56 =$ _____

7. $9.0 - 1.507 =$ _____

8. $2.4 + 2.04 =$ _____

9. $112.5 + 24.52 =$ _____

10. $5.7 - 4.81 =$ _____

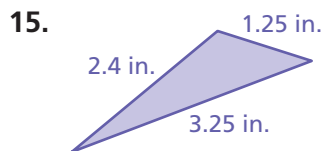
11. $20 - 12.5 =$ _____

12. $2.3 + 3.4 + 5.9 =$ _____

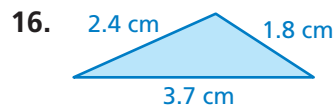
13. $3.4 + 5.6 - 2.3 =$ _____

14. $10.0 - (4.5 + 2.3) =$ _____

Find the perimeter of the triangle.



Perimeter = _____



Perimeter = _____

17. **SHOPPING** You take \$20 to the store. You buy a magazine for \$3.65 and a birthday card for \$5.29. How much money do you have left? _____

18. **NUMBER LINE** Show the sum graphically on the number line: $1.75 + 3.5$.

