

4.2

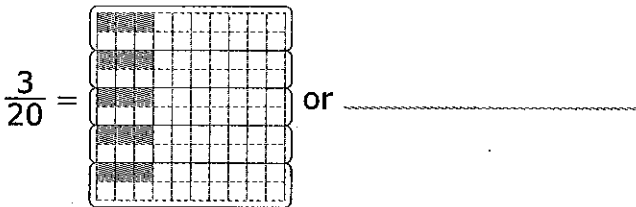
Fractions, Decimals, and Percents*MathLinks 8, pages 130–137***Key Ideas Review**

Choose from the following terms to complete each statement.

decimals division fractions hundred grid hundred grids multiplication

1. You can convert fractions to decimals using a _____
 _____ or _____.

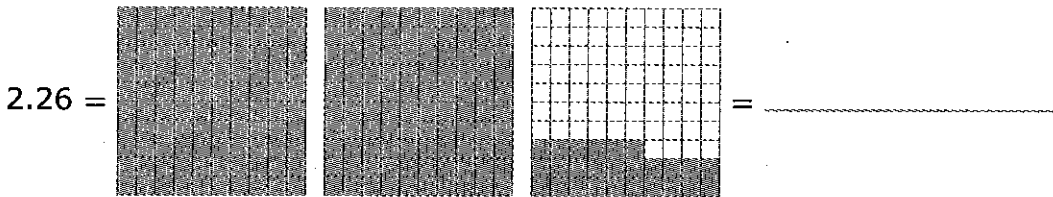
For example:



$$\frac{3}{20} = 3 \div 20 = \underline{\hspace{2cm}}$$

2. You can convert decimals to percents using _____
 _____ or _____.

For example:



$$2.26 = 2.26 \times 100\% = \underline{\hspace{2cm}}$$

3. Percents can be written as _____ and as _____.

Practise and Apply

4. Rewrite each fraction as a decimal and a percent. Show your thinking.

a) $\frac{3}{4} =$ _____ or _____

b) $\frac{21}{300} =$ _____ or _____

c) $\frac{9}{5} =$ _____ or _____

d) $\frac{1}{8} =$ _____ or _____

e) $\frac{3}{80} =$ _____ or _____

5. Convert each decimal to a percent and a fraction in lowest terms. Show your thinking.

a) 4.25

b) 0.845

c) 0.0062

6. Convert each percent to a decimal, then a fraction. Show your thinking.

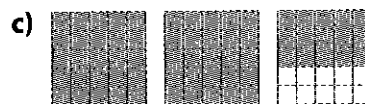
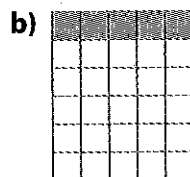
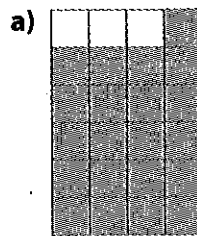
a) 735%

b) $16\frac{1}{2}\%$

c) 0.6%

7. Tristan charges a flat rate of \$16 for each small lawn that he mows. He decided to increase his rate to \$20. What is the new rate as a percent of the old rate? Show your thinking.

8. If one completely shaded grid represents one whole, express the shaded portion of each diagram as a fraction, a decimal, and a percent.



9. About 0.038% of Earth's atmosphere is carbon dioxide. Write this amount as a decimal and a fraction.

10. Kenji calculated that he needed to eat about 2000 calories per day based on his weight, age, and activity level. For lunch, he ate a hamburger that had 538 calories. What percent of Kenji's daily calorie needs does this hamburger represent? Show your thinking.

