

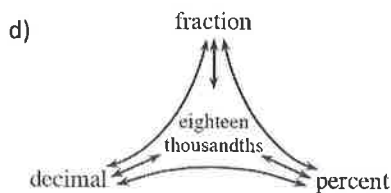
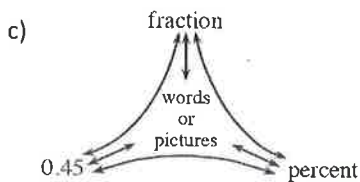
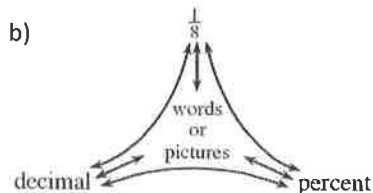
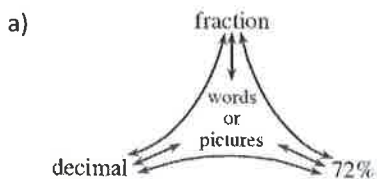
### 3.1.5 Is there a more efficient way?



Completing the Web

3-3 Complete each Representations of a Portion web below.

3-69

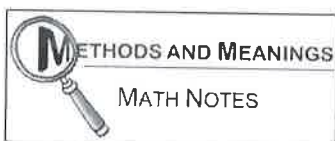


b)

**Learning Log:** To help you prepare for your quiz tomorrow, complete learning log questions 1-6 on page 59 of your notebook.

5

c)



#### Fraction ⇔ Decimal ⇔ Percent

The examples below show how to convert from one form to another.

##### Decimal to percent:

-Multiply the decimal by 100.

$$0.34 \times 100 = 34\%$$

##### Percent to decimal:

-Divide the percent by 100.

$$78\% = 78 \div 100 = 0.78$$

##### Fraction to percent:

-Convert denominator to 100.

-The numerator is the percent.

$$\frac{4}{5} \cdot \frac{20}{20} = \frac{80}{100} = 80\%$$

##### Percent to fraction:

-Use 100 as the denominator.

-Simplify as needed.

$$22\% = \frac{22}{100} \cdot \frac{1/2}{1/2} = \frac{11}{50}$$

d)

##### Decimal to fraction:

-Use place value as denominator.

-Simplify as needed.

$$0.2 = \frac{2}{10} = \frac{1}{5}$$

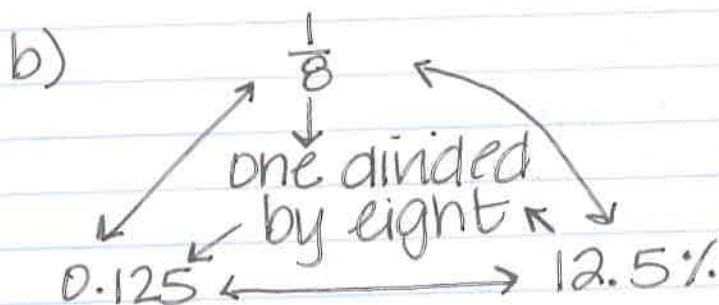
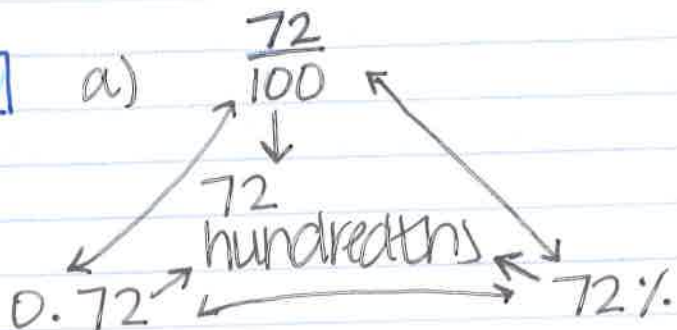
##### Fraction to decimal:

-Divide the numerator by the denominator.

$$\frac{3}{8} = 3 \div 8 = 0.125$$

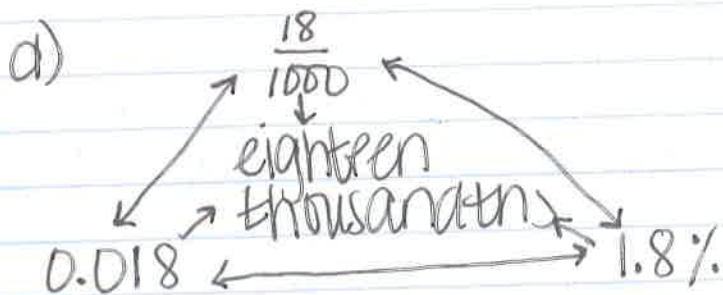
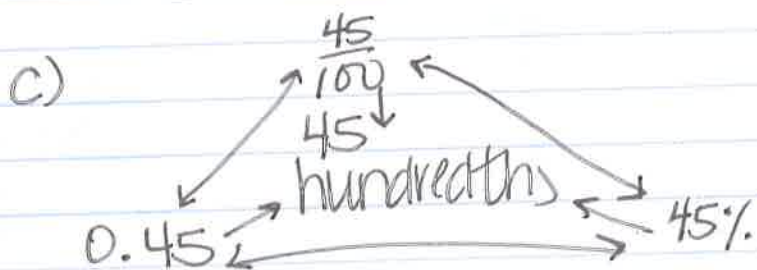
0.0

3-69



$$1 \div 8 = 0.125$$
$$\frac{1}{10} \frac{2}{100} \frac{5}{100} \%$$

A long division diagram showing  $1 \div 8 = 0.125$ . The digits 1, 2, and 5 are circled in the quotient, with 10, 100, and 1000 written below them respectively. A percent sign follows.



$$\frac{0}{10} \frac{1}{100} \frac{8}{1000} \%$$

A long division diagram showing  $18 \div 1000 = 0.018$ . The digits 0, 1, and 8 are circled in the quotient, with 10, 100, and 1000 written below them respectively. A percent sign follows.