

## 4.1

## Connect Fractions, Decimals, and Percents

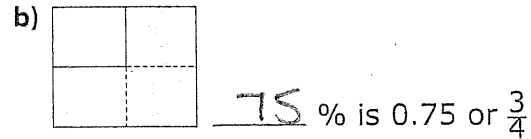
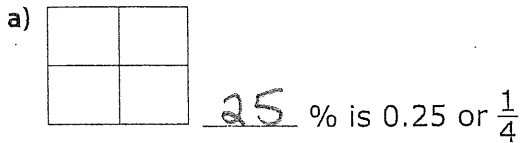
MathLinks 7, pp. 124–131

## Key Ideas Review

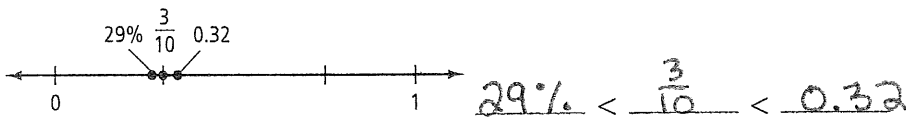
Choose from the following terms to complete each statement, then answer each question.

decimals      fractions      number line      percent      place value

1. A visual model can help identify the percent.



2. You can use a number line to compare fractions, decimals, and percents.



3. You can use place value to compare fractions, decimals, and percents.

0.43

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

$$39\% = \underline{0.39}$$

$$\underline{0.39} < \underline{0.4} < \underline{0.43}$$

## Practise and Apply

4. What is 10% of each quantity?  
Show your thinking.

a) 75 km \_\_\_\_\_

b) \$113 \_\_\_\_\_

5. What is 40% of each quantity?  
Show your thinking.

a) 480 students \_\_\_\_\_

b) 1500 km \_\_\_\_\_

no work needs to be done here

Name: \_\_\_\_\_

Date: \_\_\_\_\_

6. Compare the numbers in this set.  
Write them in descending order.  
Show your thinking.

$$97\%, \frac{99}{100}, 0.98$$

\_\_\_\_\_

\_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_

7. Compare the numbers in this set.  
Write the numbers in ascending order. Show your thinking.

$$\frac{1}{10}, 1\%, 0.001$$

\_\_\_\_\_

\_\_\_\_\_ < \_\_\_\_\_ < \_\_\_\_\_

8. Show how to find each amount.

a) 50% of 70

b) 10% of 60

c) 20% of 105

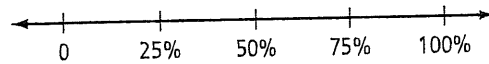
9. Calculate each amount.

a) 40% of 25 m

b) 75% of 44 apples

c) 15% of \$40

10. Use the number line to help answer the questions below.

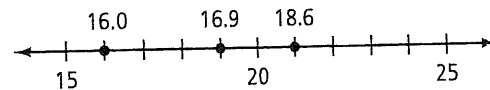


- a) What is a fraction between 20% and 40%? How do you know?

- b) What is a decimal number between 80% and 100%?

- c) What is a decimal number between 0% and 20% that is closer to 20%?

11. On this number line, which number is correctly placed? How do you know?



12. A store is having a 40% off sale on a \$212 jacket.

- a) Show how to estimate 40%.

- b) Calculate the discount.

- c) What is the sale price of the jacket?