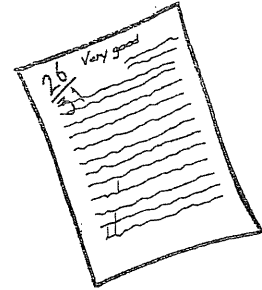


4.3 Applications of Percents

MathLinks 7, pp. 140–145

Key Ideas Review

- Alyssa changed $\frac{1}{3}$ to a decimal. When she got $0.333\dots$, she rounded this to the closest tenth and got 0.3 .
 - Did Alyssa change the value of the decimal number? Explain.
 - Which is a more accurate way to show $\frac{1}{3}$? Should you use $0.333\dots$ or 0.3 ? Explain your thinking.
- Min had a mark of 26 out of 31 on a science test. That same day, his sister got a mark of 45 out of 52 on a math test. Explain how to find out who got the better mark.



Practise and Apply

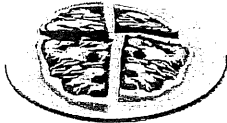
- Estimate which amount is greater. Then, calculate each amount.
 - 50% of 96, or 10% of 552
Estimate: _____
Calculation: _____
 - 10% of 56, or 1% of 451
Estimate: _____
Calculation: _____
 - 60% of 72, or 15% of 364
Estimate: _____
Calculation: _____
- Complete the table.

	1%	10%	100%
a)			450
b)		61	
c)	3.2		
d)		6.5	
e)			38

Name: _____

Date: _____

5. On Tuesday, a pizza restaurant sold 15 vegetarian pizzas and 64 non-vegetarian pizzas. On Wednesday, 22 vegetarian and 73 non-vegetarian pizzas were sold. On which day was a higher percent of vegetarian pizzas sold? Show your thinking.



7. Mikayla gets a weekly allowance of \$30. She puts 25% into a savings account each week. How much money will be in the account after four weeks? Use mental math techniques to find the answer. Show your work.

6. Use the information in this table to answer the following questions.

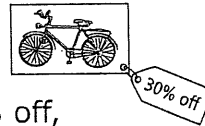
Cereal Name	Mass of Sugar	Mass of Cereal	Percent of Sugar
Maize Flakes	2 g	21 g	
Glacial Flakes	13 g	34 g	
Fruit Flakes	12 g	31 g	
Product 21	3 g	23 g	

- a) What is the percent of sugar in each cereal? Round each percent to the nearest tenth. Show your thinking below.

- b) List the cereals in descending order of their sugar content percent.

_____ > _____ > _____ > _____

8. A mountain bike's regular price is \$885.



- a) If a sale offers 30% off, what will the discount be?

- b) What is the sale price of the bike before tax? Show your work.

9. Carlos decides that he would like to play tennis. He jots down this shopping list with prices from a catalogue.

tennis racquet \$112.95
tennis shoes \$78.50
2 cans of tennis balls \$3.95 each

- a) Estimate the total cost before taxes.

- b) Calculate the total cost before taxes if Carlos gets a 10% discount.