Year: 8 Date: Tuesday 7 April 2020

STRAND: NUMBERS TOPIC: PERCENTAGE (%)

LESSON OUTCOME: At the end of this lesson student(s) should be able to Calculate

**Decimal Money questions.** 

**Instructions:** Hi dear Parents/Guardians and students - In this Lesson students are going to find % of amounts (dealing with money) and do the selected questions for **Exercise** 4.2.

[ Note that all the Quizzes/Test and or Assignment will be based on the selected questions for each exercise. These lessons are designed for **one hour per Lesson**. ]

What to do: Do the following selected questions

Exercise 4.2: Question 1, Question 5, Question 6

Solutions: Solutions will be available online via

https://www.facebook.com/centralschoolemergencyforum/posts/108720557434149

# **Decimal Money Questions**

Many countries use a decimal number system for their money. For example, Australia, New Zealand and America use dollars and cents. There are 100 cents in one dollar.

So \$12.46 means 12 dollars and 46 cents.

#### **EXERCISE 4.2**

- 1. The Millar family won \$3000 on Lotto. They decided to update their TV/ stereo equipment and purchased the following items:
  - a colour TV \$549
  - a video player \$499
  - a TV/video cabinet \$240
  - a pack of 5 VHS tapes \$52
  - a compact disc player \$370
  - a tape deck \$345
  - a turntable \$269.
  - a. What was the total cost of all this equipment?
  - b. How much money would be left from the Lotto winnings?
- 2. Mr Sarris went to a sale at his local store. The prices he paid are listed here, with the regular prices in brackets:
  - a Kodak film \$3.95 (\$4.65)
  - a clock radio \$35 (\$38.76)
  - a jumper \$22.45 (\$25.98)
  - a pair of trousers \$26.98 (\$32.99)
  - 4 litres of paint \$15.98 (\$19.96)
  - a torch \$4.48 (\$5.47)
  - a. How much did Mr Sarris spend altogether?
  - b. What would the total cost have been if he had had to pay the regular prices?
  - c. Use your calculator to find the amount he saved on each item.
  - d. Check Mr Sarris' total savings, using these two methods:
    - i. subtract answer a from answer b.
    - ii. add the individual savings from c.

Johnny wondered if he could afford to leave home to live in a flat. His weekly wage was \$290. He considered the weekly costs:

rent \$95
car repayments \$60
petrol \$20
electricity \$12
food \$70
banking to cover car insurance and registration \$10
clothing \$12

- a. What is the total of all the costs that Johnny has considered?
- b. How much would he have left from each weekly pay for entertainment and other costs?
- c. What are some other costs that Johnny should have considered?
- 4. Laila has recently bought her first car. Her repayments total \$1927.80 per year. It cost \$260.75 to register the car. To insure the car costs \$324.90. Repairs and services for the year total \$ 266. What is the total cost of keeping the car for one year if we also include the cost of petrol at \$988 per year.
- 5. Leesa wrote a shopping list showing those items (in order of preference) that she would like to buy if she had enough money:

a nightshirt \$12.45 a denim bag \$17.87 earrings \$4.98 a record \$11.98 moccasins \$19.90 leg warmers \$6.97 a calculator \$12.50

- a craft book \$5.35
- a set of textas \$3.60
- a. If Leesa had \$88 in her savings what would be the last item from her list that she could afford to buy?
- b. How much more does she need to save so that she can afford to buy all the items on her list?

#### **EXERCISE 4.2 (continued)**

6. Arun opened a savings account at the bank and a page from his passbook is shown here. Calculate the amounts that should be written in the spaces.

Date	Deposits	Withdrawals Balance	
15.11.96			\$86.40
22.11.96	\$16.72		_a_
16.01.97	\$35.95		b
17.01.97		\$25.60	
23.01.97	rettal more	\$40.50	d
24.01.97	e		\$108.57
07.01.97		f	\$45.72

# **Using Percentages with Money**

A **discount** is an amount of money taken off the full price or total. The discount is usually written as a percentage.

**Example:** A CD player is priced at 60000vt. The store is offering

a 15% discount. Find a. the discount and b. the new

selling price.

a. 15% of 60000

$$= \frac{15}{100} \times \frac{60000}{1}$$
$$= 9000vt$$

b. New price = Marked price - discount

= 60000 - 9000

= 51000vt