



Baldivis
Secondary College

Name: Answers

Mathematics Essentials – Unit 1: Test 3

Mark: / ~~47~~ 44

Multiple Choice Section

Marks 5

- A. Kate's hourly rate of pay is \$9.50 for the first 36 hours and time-and-a-half for every extra hour. How much is she paid for 41 hours?

342

A \$389.50

B \$413.25

C \$460.75

D \$584.25

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- B. Dale has a salary of \$48 984 p.a. His fortnightly pay is:

A \$1884

B \$1959.36

C \$2041

D \$2226.55

- C. Hannah receives a commission of 6.5% on all her sales. How much commission does Hannah earn in a week in which her sales total \$2800?

A \$182

B \$232.14

C \$430.77

D \$1820

- D. Caleb receives a royalty of 15% on the market price on sales of a book he has written. If the book sells for \$12.95, find Caleb's total royalties for a period when 2180 books have been sold.

A \$1882.07

B \$2525.10

C \$2823.10

D \$4234.65

- E. Morgan's local council sent a bill for water rates. It showed the following information:

Meter Number	Previous Reading (kL)	Present Reading (kL)	Consumption (kL)	Water Usage Charge
87912	222	251	29	\$0.8500 per kL

The amount Morgan will need to pay is:

A \$24.65

B \$188.70

C \$213.35

D \$246.50

Question 3**Marks 2**

Amanda works on Thursday evening and Saturday at her local supermarket. She is paid \$8.40 per hour. This is a casual rate before deductions such as tax. On Thursday she works from 5 pm to 9.30 pm and on Saturday from 12.30 pm to 6 pm.

- A. How many hours does Amanda work each week?

$$4.5 \text{ hr} + 5.5 \text{ hrs} = 10 \text{ hrs a week} \checkmark$$

- B. Calculate her weekly pay at the casual rate.

$$8.40 \times 10 = \$84 \checkmark$$

Question 4**Marks 5**

Justin is 22. He works full-time as a registered plumber. Justin's basic hourly rate of pay is \$18.28.

- A. Justin works a 38-hour week. What is his weekly rate of pay?

$$18.28 \times 38 = \$694.64 \checkmark$$

- B. Calculate Justin's annual salary, assuming 52 weeks in the year.

$$694.64 \times 52 = \$36,121.28 \checkmark$$

As well as paying the employee, the employer contributes 9% to the employee's superannuation.

- C. Calculate the employer weekly contribution to Justin's superannuation. Round the answer to the nearest cent.

$$694.64 \times 9/100 = \$62.52 \text{ per week} \checkmark$$

Sorry!! → Marks 4

Question 6

Marks 7

Mark's normal wage is \$880.80 for a 40-hour week. He worked overtime and earned \$1233.12 in one week.

- A. Find his normal hourly rate.

$$880.80 \div 40 = \$22.02 \checkmark$$

- B. How much extra did he get for overtime?

$$1233.12 - 880.80 = \$352.32 \checkmark$$

- C. How many hours of overtime did he work if he was paid double-time for the overtime worked?

$$\begin{aligned} 352.32 \div 44.04 & \checkmark \\ & = 8 \text{ hours. } \checkmark \end{aligned}$$

Question 7

Marks 2

Find the new price of the following items after the discount has been applied:

- A. Original price: \$365

Speakers has a 25% discount

$$\begin{aligned} 365 \times 25\% & \\ & = 91.25 \\ 365 - 91.25 & \\ & = \$273.75 \checkmark \end{aligned}$$



- B. Original price: \$240

Shoes has a 40% discount

$$\begin{aligned} 240 \times 40\% & \\ & = 96 \\ 240 - 96 & \checkmark \\ & = \$144 \end{aligned}$$

