

Mathematics Essential

Name: _____

Task 2.6 – Unit 2

Assessment type: Response - Skills

Marks: marks _____ / 20

Conditions:

Time for the task: 30 minutes

In class, calculator permitted

Task weighting:

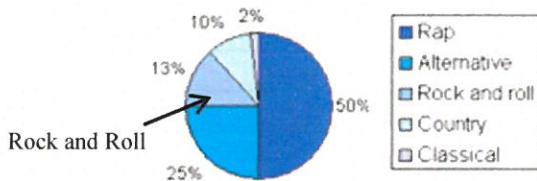
2% of the school mark for this unit

Question 1

(6 Marks):

a)

Music preferences in young adults 14 to 19

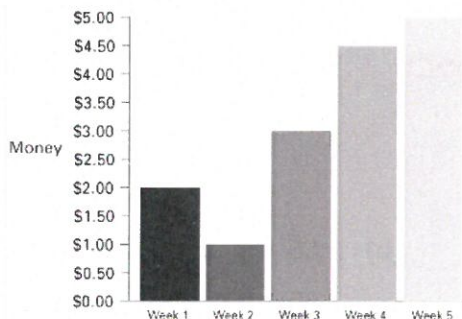


If there were a total of 205 young adults surveyed, approximately how many preferred Rock and Roll?

26

b)

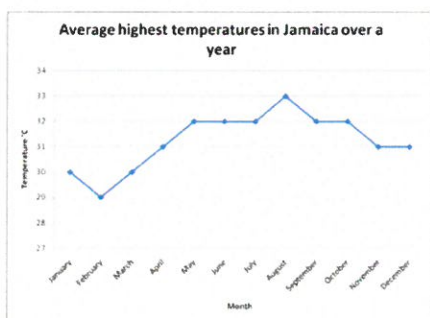
Chris's bank account



The amount in the bank for Week 4 is how much greater than the amount for Week 2.

\$ 3.50

c)



John says that the temperature in Jamaica is always close to x° . Janine agrees with him and says this is called the Median. Which of these values do you think 'x' could be?

30.5

d)

Stem	Leaf
12	9 0 9 9 4 1 9 0 5
13	2 8 5 1 5 3 8 7 2 5
14	4 3 9 9 7 9 9 4 0
15	1 8 4 9 7 0 3 5
16	8 2 8 9 1 1 2 2 4
17	8 2 2 2 3 2

Complete:-

The highest score is the stem and leaf plot is 178

The lowest score in the stem and leaf plot is 120

The RANGE the range of this data is 58

Question 2**(2 Marks)**

- a) A 75g small serve of French Fries contains 230 calories. If 1 calorie = 4.2 kilojoules, how many kilojoules is there in the 75g serve of French Fries.
- b) Paul takes his own pulse and finds that it is 26 beats in 15 seconds. How many beats per minute is this?

966kg

104

Question 3:**(3 marks: 1, 1, 1)**

Complete the table by filling in the missing values:

SCALE	DISTANCE ON THE MAP	REAL LIFE DISTANCE
1:100	4cm	400cm
1:50	18cm	900cm
1:1000	5cm	5000m

Question 4:**(3 marks)**

The profit from a family business was shared by three brothers, Paul, Greg and John, in the ratio of 3:2:1 respectively. If the total profit was \$48 000, what was each brothers share?

$$48000 \div 6 = 8000 \text{ (1 mark)}$$

$$\$24000 : 16000 : 8000 \text{ (2 marks)}$$

Question 5:**(2 Marks)**

Write the differences between the two times

- a) 4:45 p.m. and 6:40 p.m.

- b) 9:55 a.m. and 1:20 p.m.

1hr 55mins

3hr 25min

Question 6:**(2 marks: ½, ½, ½, ½)**

Write typical units used for each of the following rates:

- a) price of sausages

- c) driving speed

\$ per kg

km per hr

- b) petrol cost

- d) water usage in the shower

c per L

L per min

Question 6:**(2 marks)**

Tamara is paid at a fixed rate per hour. If she earns \$136 for 5 hours work, how much will she earn for working 8 hours?

$$\$136 \div 5$$

$$\underline{\underline{\$217.60 \div 8}}$$