

Student Name MARKING KET.

Eastern Goldfields College Mathematics Essential U1 2017

Test 1 - Calculator Free

Time allowed: 15 minutes

Total Marks: 22 marks

No calculator or notes permitted for this section.

Answer all of the following questions. Show all working to obtain full marks.

Question 1 [5 marks - 1, 1, 1, 1, 1]

Round each number to the given accuracy:

(a) 346 (nearest 10)

(b) 27.48 (one decimal place)

(c) \$72.634 (nearest dollar)

(d) \$\$72.634 (nearest cent)

(e) \$72.634 (nearest 5c) \$72-65

Question 2 [6 marks - 1, 1, 1, 1, 2]

(a) $14+6 \div 3$

(b) 4×(5+(56÷8)) 4 8

(c) 15% of \$800 \$ 120

- (d) $\frac{3}{5}$ of \$90 \$54
- Two students answer the following question:
 30 ÷ 5 × 2
 Bob says the answer is 12 but Leo insists that the answer is 3. Who is correct and why?

Bob. Division is done first

because it came before the multiplication.

Question 3 [2 Marks]

Rachel bought a new pair of shoes in a '25% off' sale. Normally the shoes cost \$90. How much did Rachel pay for the shoes in the sale?

OR 3 of 90 =\$67.5

7

Question 4 [1 Mark]

Write the set of numbers in order from smallest to largest.

53.7 53.8 53.745

53.81 53.75

Question 5 [4 Marks 1, 1, 1, 1]

(a) Express $\frac{3}{4}$ as a decimal.

0.75

(b) Express 65% as a decimal.

0.65

(c) Express $\frac{1}{5}$ as a percentage.

30%

(d) Express 0.25 as a fraction (Simplest form).

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Question 6 [4 Marks 1,1, 1, 1]

In each pair, circle the amount that has the greater value.

(a) 0.7 or 80%

(b) $\frac{2}{3}$ or $\sqrt{75\%}$

(c) $\left(\frac{3}{7}\right)$ or $\frac{1}{7}$

(d) $\frac{4}{5}$ or $\left(\frac{5}{4}\right)$



Student Name MARKING KEY.

Eastern Goldfields College Mathematics Essential U1 2017

Test 1 - Calculator Assumed

Total Marks: 25 marks

Time allowed: 35 minutes

One A4 page of notes permitted in this section.

Question 1 [2 Marks]

Rhett has \$45 000 saved. He is going to use two thirds of his savings as a deposit on a house. How much is his deposit?

42000 - 3 = \$30,000

Question 2 [3 marks - 1, 2]

Christina sells Tupperware and earns 8% of the total sales. One week she had three parties, one valued at \$1500, one valued at \$2200 and one at \$940.

What was the total value of sales for the week?

1500 + 2200 + 940 = \$4640

What commission did she earn?

Question 3 [4 marks - 2, 2]

John has just commenced his first job ever at J-Mart earning \$730 per week with 9.5% superannuation.

Calculate his superannuation for the week

How many weeks will it take his superannuation to grow to \$1000?

Question 4 [6 marks - 1, 3, 2]

The distance to travel from Kalgoorlie to Esperance by road is 401km. A motorist will travel from Kalgoorlie to Esperance stopping in Kambalda East, Norseman and Grass Patch on the way. This is displayed in the table below:

Travel	Distance
Kalgoorlie to Kambalda East	60 km
Kambalda East to Norseman	133 km .
Norseman to Grass Patch	127 km
Grass Patch to Esperance	81 km
Total	401 km

a) Fill in the missing distance

b) What percentage of the trip has been completed:

(i) On reaching Norseman?

(ii) On reaching Grass Patch?

c) How far from Kalgoorlie will the motorist be when the trip is:

(i) Half complete?

(ii) Three quarters complete? 401 20.75 =

200.5 KM

300.75 km

Question 6 [3 marks -1, 2]

Adrian asked 30 friends about their favourite barbecue food. The table below shows the results.

For what fraction of the friends is seafood their favourite?

Food	Number who chose it as
	their favourite
Sausages	12
Steak	10
Seafood	8

What proportion of the group prefers sausages? Express as a decimal

Question 7 [7 marks - 5, 2]

Three online stores are selling iPad Airs for the following prices:

RICK SMYTH'S iPad Air \$605

HARDLY NORMAL iPad Air \$709 15% OFF

RETRO VISUAL iPad Air \$720 $\frac{1}{6}$ OFF

Which store offers the best deal and by how much? Show working to support your answer.

HN 709=0.15=106-35 709-106.35 =\$602.65

720- 6-120 720-120-\$600

: Best deal is Retro Visual 67 \$2.65 ~

Each store has postage charges as follows:

Rick Smyth's - \$25

Hardly Normal - \$15

Retro Visual - \$19.95

F.T amounts from

Does this affect which store you choose? Explain with calculations.

605+25 = 630

602.65 + 15

600-19.95 part a