

ESSENTIAL MATHEMATICS 1

WEEK 1 NOTES AND EXERCISES

Why study maths?

The purpose of this course is to give you some background skills so you can succeed at something that you really want to do (and we think some maths can really help you with that).

PART 1

1. Check out our amazing website www.hawkermaths.com, play around with it until you can find your learning brief!
2. Join the Google Classroom for this class. Visit <https://classroom.google.com/u/0/h> and join the class use the code **found on the orientation sheet (Welcome to Maths)**
3. Scan into Timestation. Get your QR code or pin from your teacher.

PART 2

For this video you are to come up with a question. A question that could be asked in a mathematics classroom. You do not need to solve the question.

<http://www.youtube.com/watch?v=gDkd0Vaxf-c>

PART 3

Find your own image from this website and create a question that is related to mathematics.

<http://mathematicalimages.weebly.com/index.html>

Image chosen:

Question:

PART 4

Answer the following questions:

Question 1 (Use a calculator if you like)

(a) $10 + 10 \div 2 - 1$

(b) $40 \div 2 + 3 \times 7$

(b) $25 \times (5 + 5) - 1$

(c) $27 + 11 \times 9 - 56 \div 8$

(d) 70% of 4000

(e) 70% off 4000

(f) 200% of 10

(g) What percentage is 10 of 50?

(h) Convert 1.78% into a decimal

(i) Convert 0.84 to a percentage

Question 2

For each week, Vala earns a wage of \$15 per hour for the first 26 hours, time-and-a-half for the next 10 hours, and double time after that. Calculate her weekly income if she works 50 hours.

Your response for this task will be marked and recorded. Ask for help if you needed.

Time facts and conversions, you need to know:

Answer the following questions:

- 1) 1 week = _____ days.
- 2) 2 minutes = _____ seconds.
- 3) 1 day = _____ hours.
- 4) 1 fortnight = _____ weeks.
- 5) 1 year = _____ months.
- 6) 3 minutes = _____ seconds.
- 7) 4 hours = _____ minutes.
- 8) 3 years = _____ months.
- 9) January = _____ days.
- 10) June = _____ days.
- 11) 49 days = _____ weeks.
- 12) 240 seconds = _____ minutes.
- 13) 96 hours = _____ days.
- 14) 10 weeks = _____ days.



Write a sentence or two explaining why it is important to know these conversions. Give an example where this knowledge could be useful.