



Tenbury High Ormiston Academy Maths Department

Stage 6 Home Learning project Summer term 1

Name:

Deadlines:.....

Maths teacher:

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LMG:

.....

If you have any problems with any of the tasks then please ask your class teacher or pop along to homework club on Tuesday, Wednesday or Thursday lunchtimes.

For assessment criteria please see the school websites new homework page.

All tasks should be completed in your maths book and clearly labelled homework.

Task 1: Mathematical definitions

Write a definition for each of the following terms and give an example where possible. (These should be done in your book)

Investigating angles	Calculating fractions, decimals and percentages
Angle	Mixed number
Degrees	Equivalent fractions
Right angle	Simplify
Acute angle	Lowest terms
Obtuse angle	Proper fraction
Reflex angle	Improper fraction / top-heavy fraction/ Vulgar fraction
Vertically opposite	Numerator
	Denominator
	Percent
	Percentage

TASK 2: Complete each of the tasks below.

Make notes to explain how you are going to remember these facts.

Give the definition of each keyword.

Literacy

Percentage	Increase
Amount	Decrease
Quantity	
Value	

%

Research

What does VAT stand for?

What is the current rate of VAT?

Memory

50% = 0.5 = 1/2 = one half

25% = 0.25 = 1/4 = one quarter

75% = 0.75 = 3/4 = three quarters

10% = 0.1 = 1/10 = one tenth

Skills

Calculate the following without using a calculator:

Section A	Section B
1. 50% of £640 =	1. 50% of £96 =
2. 25% of £640 =	2. 25% of £120 =
3. 75% of £640 =	3. 75% of £84 =
4. 10% of £640 =	4. 10% of £33 =
5. 20% of £640 =	5. 20% of £320 =
6. 5% of £640 =	6. 20% of £82 =
7. 15% of £640 =	7. 5% of £180 =
8. 35% of £640 =	8. 5% of £48 =
9. 40% of £640 =	9. 15% of £400 =
10. 95% of £640 =	10. 15% of £28 =

Stretch

- 1% of £96 =
- 0.5% of £2500 =
- 2.5% of £360 =
- 17.5% of £180 =

Increase:

- £240 by 15% =
- £180 by 17.5% =

Decrease:

- £400 by 1.5% =
- £2500 by 0.5% =

Task 3: Create one of the following resources to explore the idea of converting between units of length, mass, capacity and time.

- a presentation
- prepare a starter activity
- a game

Task 4: Computer based homework task

Using www.corbettmaths.com watch the following videos and answer the questions set in your homework book. You must show all your working out.

Video 38 Types of angle

Green	Amber	Red	Killer
Textbook exercise Questions 1 and 2	Textbook exercise Questions 2 and 3	Textbook exercise Questions 6 and 7	Textbook exercise Questions 6, 7 and 8

Videos 30, 34, 35 and 39 Calculating missing angles

Green	Amber	Red
Textbook exercise Q2 a and b Q3 a and b Q4 a and b Q5 a-f	Textbook exercise Q2 h and i Q3 h and i Q4 h and i Q5 a-f	Textbook exercise Q4 a-f Q5 j-r