

Tenbury High Ormiston Academy Maths Department

Stage 8 Home Learning project Spring term 2

Name:

Deadlines:.....

Maths teacher:

.....

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 homework book.

Task 1: Mathematical definitions

Write a definition for each of the following terms and give an example where possible.

Proportional reasoning	Calculating fractions, decimals and percentages
Ratio	Proper fraction
Proportional	Improper fraction
Multiplier	Mixed number
Speed	Simplify, cancel, lowest terms
Unitary method	Percentage change
Units	Original amount
Compound unit	Simple interest

TASK 2: Complete each of the tasks below.

Literacy

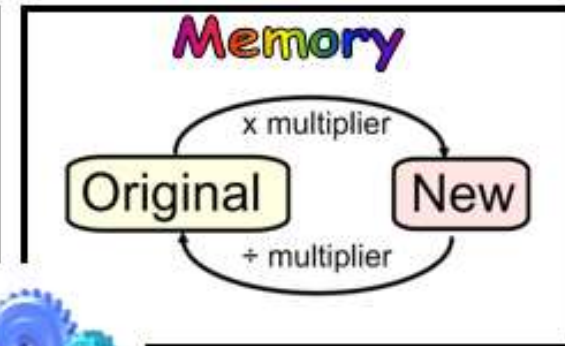
Un-jumble the following keywords

rinse ace race seed eves err
 epic tree ad creep agent

Research

As a percentage, what is the current population growth rate of the UK?

Write this as a decimal multiplier.



Skill Practice

Task 1 →

Task 2 ↓

Match together by drawing lines

Increase by 25%	0.85
Decrease by 25%	1.32
Increase by 32%	0.75
Decrease by 15%	0.4
Decrease by 60%	1.032
Increase by 3.2%	1.25

- A jacket is reduced by 40% in a sale to £36. What was its original price?
- A car depreciates in value by 30% during its first year. Its value now is £8960. What was its original price?
- A coat is reduced by 20% in a sale. If it was originally £85, how much is it now?
- If a bed is reduced by 35% in a sale to £91.00, find the original price.
- The bill in a restaurant comes to £92. A service charge of 15% is added. What is the new cost?
- If a computer is reduced by 77% in a sale to £6.90, find the original price



Stretch!

Use your multiplier from the research task to answer the following question.

Given that the UK population was 64.1 million in 2013, use your multiplier to predict what it would be in 2025.

Task 3: 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 229 Speed distance time - choose one of the following sets of questions to answer.

Green	Amber	Red	Killer
<u>Textbook exercise</u> Workout questions: Q1 (a-d) Q5 (a-d) Q9 (a-d) Apply questions: 1-4	<u>Textbook exercise</u> Workout questions: Q2 (a-d) Q6 (a-d) Q 10 (a-d) Apply questions: 5-8	<u>Textbook exercise</u> Workout questions: Q3 (a-d) Q7 (a-d) Q 10 (e-h) Apply questions: 9- 12	<u>Textbook exercise</u> Workout questions: Q4 (a-d) Q10 (g-j) Q11a, Q12a, Q13a, Q14a Apply questions: 13-16