## Second Level Maths Tasks

Week beginning 8.2.2021

## Maths Homework Options

To keep your mental maths up to scratch, keep working through your maths options sheets.

10-15 minutes during each maths session will help your number work.

## Inheritance Problem

When George reached the age of 60, and his wife Enid emigrated to Australia. Five years later he discovered gold, became extremely rich. When he was 80 years old he decided to share some of his wealth with his family in UK. Having lost touch with his UK family, he hired a private investigator to track down his relatives. The private investigator placed adverts in newspapers. 24 people wrote in. As William only had 17 relatives, it is obvious that some of the claimants are not relatives. It is your job to first fill out George's family tree and then look at the statements to decide who is a true relative and who deserves no money! Family tree and clues on page 4, statements on page 5.

## Algebra-assessment

*Don't do until you have completed previous 4 weeks work on algebra.

Have a go at the assessment on page 3 and see how you're progressing with expressions and equations.

Hint-questions 5 needs you to know how to find the perimeter of a shape. We worked in that just before Christmas-can you remember? Email it in if you would like me to mark it.

## Word Problems

I've added a few word problems on page 6. They use a mix of your operations (addition, subtraction, multiplication, division) and have more than one step you need to complete to solve them.
Remember drawing a mathematical diagram can help you think about how to solve the problem, as can looking for key vocabulary.

## 5-a-day

I've put some number problems on the next sheet, you can choose 5 each day to work on like we would in class.

## Rocket Rounding

Watch this video if you need a refresher on rounding numbers
https://www.bbc.co.uk/bitesize/
topics/zh8dmp3/articles/zpx2qty
Round these to the nearest 10

| 154 | 289 | 8361 | 558 | 12085 |
| :--- | :--- | :--- | :--- | :--- |

Round to the nearest 100
$\begin{array}{lllll}602 & 484 & 1075 & 3428 & 9886\end{array}$

Round to the nearest 1000
$\begin{array}{lllll}6747 & 8273 & 9928 & 20188 & 6187\end{array}$

Round to the nearest whole number
$1.6 \quad 2.34$
9.9
7.5
8.023
**Then have a go at the Rocket Rounding game
https://www.topmarks.co.uk/maths -games/rocket-rounding

## 5-a-day

Choose a level of challenge, choose a row to do each day

Mild

Topic in a Nutshell


## Clues to fill in family tree

## Family Tree and Clues



## People Claiming Money

| Claiming to be | What they say | True | False |
| :---: | :---: | :---: | :---: |
| Harry | I am George and Enid's oldest son. I am 54 years old. I am married to Sarah and have one son and 2 daughters. |  |  |
| Ben | I am George and Enid's grandson. I am 18 years old and have one sister. My mother is called Anne. |  |  |
| Saskia | I am married to Tom. I am mad about horses. I am 27 years old. My father -in-law is David. |  |  |
| Craig | My younger sister is called India. Enid is my grandmother. |  |  |
| Amy | I am 5 years older than my brother Mark. George is my grandfather. |  |  |
| Orla | I am 22 years old. I am one year older than Craig and 3 years younger than India. |  |  |
| Mavis | I am 13 years old. My younger sister is 3 years younger than me. |  |  |
| Anne | I have 3 children. My husband, who is 3 years younger than me, is George and Enid's son. |  |  |
| Tim | I am married to George and Enid's daughter Anya. We have a good marriage because we are the same age. |  |  |
| Sarah | I am married to Harry (George and Enid's oldest son). Harry is one year older than me. |  |  |
| Tom | David is my father and George is my grandfather. I am 30 years old. |  |  |
| Celia | George and Enid are my parents. I am 51 years old and have a husband who is 2 years older than me. |  |  |
| Eva | Hi , I am Eva. My mum is called Anya. Her dad is George who lives in Australia. I am 11 years old. I want to buy a new phone. |  |  |
| David | I am one of George and Enid's sons. I am married to Anne. I am 48 years old and love sycamore trees. |  |  |
| Amy | My father is called David. He is 22 years older than me. I have a younger brother called Mark and an older brother Tom. |  |  |
| Mark | I am 22 years old. I am a grandson of George and Enid. I play the drums and need money for a new set. |  |  |
| Ben | I am 18 years old. I have two younger sisters. My mother Anya is one of George and Enid's daughters. |  |  |
| Craig | I am 21 years old. Anya is my mother and David is my father. |  |  |
| Mavis | I am 13 years old. My hobbies are fashion and watching TV. My 18 year old brother doesn't deserve any money. |  |  |
| Harry | I am George and Enid's first son. I visited them in Australia last year. My wife and I have 4 children. |  |  |
| Tim | George is my father. My wife Anne is younger than me. We have 3 children. |  |  |
| Celia | Enid is my mother. I am 4 years younger than Harry and 4 years older than David. |  |  |
| Mark | David is my father. George is my grandfather. I am 6 years younger than my sister Amy. |  |  |
| Sarah | I am the daughter-in-law of George and Enid. I married their son Tim just after we left university. |  |  |

## Word Problems

Olivia wins $£ 802,649$ on the lottery one week and $£ 100,876$ on a scratch card the following week. She shares the winnings equally between 3 of her family members. How much money do they get each?

Bailey bought twenty four bags of sweets with eighty six pieces in each one. He plans to divide all the sweets evenly among eight friends. How many sweets will they each get?

Rhys loves Lego. He had 576,175 Lego bricks before selling 216,175 of them. He split the remaining bricks equally into 8 boxes. How many bricks were in each box?

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In a garden centre, rose seeds cost £1.38, lily seeds cost }£1.15\mathrm{ and daffodil seeds cost 85p. Rhona
buys eight packets of rose seeds and 12 packets of daffodil seeds. How much change does she get
from a £50 note?
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Cleo has 24 mantis. Three quarters of the mantis are dead leaf mantis, four are orchid mantis and the rest are zebra mantis. How many zebra mantis does she have?

A shop sells 6 green apples for 75 p and 10 red apples for 90 p. Oriana bought 18 green apples and 40 red apples. She paid with $£ 10$. How much change did she get?

A car boot sale charges an entrance fee of 50p for adults and 30p for children. 100 adults and 80 children pay to go in. How much money do they pay altogether?

A cinema ticket cost $£ 8.29$ for an adult and $£ 4.55$ for a child. If Hannah and her brothers Paul and Jack go with mum and dad, how much do they spend on tickets?

