## Canonbury Home Learning

## Year 6 Maths

## Developing/ Expected/ Greater depth activity

## Lesson 2

## LO: TBAT solve word problems.

Iask: This week you will be trying to find the ages of family members solving word problems.

## Success Criteria:

## 1. Read the question.

2. Highlight the key information.
3. Identify the operation needed (,,$+- \div, x$ )
4. Solve.
5. Use the inverse to check your answer.

## 100 Square

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |



## Canonbury Home Learning

## Year 6 Maths

## Main activity

| Task 1 |  | Task 2 | Task 3 |
| :---: | :---: | :---: | :---: |
| Problem solving | Arithmetic |  | Project |
| Apply your knowledge of factors to solve the following questions. |  |  | Expected |
|  | 15 | $\frac{2}{5} \text { of } 30=$ | Continue with yesterday's task. |
| Q1. <br> Circle all the prime factors of 30 |  |  | Susan. |
|  |  |  | 9. James' sister Jessica is younger than James by less than 10 years. Her |
| Q2. |  |  | age is a multiple of both 2 and 3 . |
| 1 and 48 is factor pair of 48 Find three other factor pairs of 48 | 16 | $\frac{1}{6}=\frac{?}{30}$ | 10. James' younger brother Steven has an age which is a square number. When he is 3 times his age now, he will be 48 . |
| and | 17 | $70 \%$ of $80=$ | 12. Gerald's wife is younger than him although also in her seventies. Her age is a prime number. The digits of her age add up to 10. |
| and | 18 | 7) $3456=$ | 13. James is married to Charlotte. Charlotte is in her twenties. Her age is divisible by $2,3,4,6$ and 8 . |
| Q3. <br> 1 and 35 is a factor pair of 35 |  |  | 14. James and Charlotte have a son Cameron whose age is an even square number. |
| and | 19 | $0.07 \times 4=$ | 15. Gerald and Ruth have an unmarried son Paul who is younger than Sam but older than Bert. His age is a prime number. |
| Q4. | 20 | $2.97 \times 4=$ | Greater depth task on the next page. |
|  | 21 | $9.78 \times 1000=$ |  |



## Age Old Problems 2

Find the ages of the Jones family members and fill in the family tree. Nobody is aged over 100 , so a 100 square is a useful help.

1. Sam was married when he was 22 years old. He lives at 115 Chestnut Crescent. His age is a multiple of both 5 and 7 but not a multiple of 2.
2. Sam's wife, Felicia came $204^{\text {th }}$ in the London Marathon. She is older than Sam and her age is a prime number. The digits of her age total 5.
3. Jim is their oldest child. He ate 24 baked beans at breakfast. His age is a square number - it is only one digit.
4. Jim's sister Sarah has 4 rabbits. Her age is a factor of 54,72 and 84. When Sarah is $3 x$ as old as she is now, the digits of her age will add up to 9 .
5. Sam and Felicia's youngest child Henry has chicken pox. He has 15 spots on his face. His is half the age of Sarah and $1 / 3$ of the age of Jim.
6. Sam's father Cyril is in his 70 s. His age is a multiple of 24 . He retired from his last job when he was 65 .
7. Cyril's wife Ruth is younger than Cyril. She retired from her job when she was 59. The difference between the 2 digits of her age is 6 . Her age is an odd number.
