

Canonbury Home Learning

Year 6 Maths

Developing/ Expected/ Greater depth activity

Lesson 1

LO: TBAT solve word problems.

Task: 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 (+, -, ÷, x)
4. Solve.
5. Use the inverse to check your answer.

Order of Operations		
B	Brackets	$10 \times (4 + 2) = 10 \times 6 = 60$
O	Order	$5 + 2^2 = 5 + 4 = 9$
D	Division	$10 + 6 \div 2 = 10 + 3 = 13$
M	Multiplication	$10 - 4 \times 2 = 10 - 8 = 2$
A	Addition	$10 \times 4 + 7 = 40 + 7 = 47$
S	Subtraction	$10 + 2 - 3 = 5 - 3 = 2$

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

Task 1	Task 2	Task 3														
<p>Problem solving Use BIDMAS to solve the following problems.</p> <p>Q1. Write the missing numbers.</p> $48 \div (19 - \square) = 4$ $\square + 6 \times 8 = 56$ <p>Q2. In the circle write +, -, x, or ÷ to make the calculation correct.</p> $18 \bigcirc 3 \times 5 = 30$ <p>Q3. Write what the two missing numbers could be.</p>	<p>Arithmetic</p> <table border="1"> <tr> <td style="background-color: #3498db;">8</td> <td>$3057 - 100 =$</td> </tr> <tr> <td style="background-color: #3498db;">9</td> <td>$6^2 =$</td> </tr> <tr> <td style="background-color: #3498db;">10</td> <td>$\frac{1}{9}$ of 27 =</td> </tr> <tr> <td style="background-color: #3498db;">11</td> <td>$0.75 = \frac{?}{4}$</td> </tr> <tr> <td style="background-color: #3498db;">12</td> <td>$30.4 + 59.8 =$</td> </tr> <tr> <td style="background-color: #3498db;">13</td> <td>$1492 - 605 =$</td> </tr> <tr> <td style="background-color: #3498db;">14</td> <td>$0.84 = ? \%$</td> </tr> </table>	8	$3057 - 100 =$	9	$6^2 =$	10	$\frac{1}{9}$ of 27 =	11	$0.75 = \frac{?}{4}$	12	$30.4 + 59.8 =$	13	$1492 - 605 =$	14	$0.84 = ? \%$	<p>Project Expected</p> <p style="text-align: center;"><u>Age Old Problems 1</u></p> <p>Find the ages of the Smith family members and fill in the family tree. Nobody is aged over 100 so a 100 square is a useful help.</p> <ol style="list-style-type: none"> Bert is between 40 and 50 and his age is a multiple of 9. His wife Freda is less than 5 years younger than Bert. Her age is a multiple of 3. Their only son John is younger than 20. His age is a prime number and the digits add up to 10. His sister Flora is 4 years younger than John. Bert and Freda's youngest child Anne has a single digit age. It is an even number and a factor of 56. She is more than half the age of Flora. Bert's married brother, Sam is older than Bert. His age is a square number and the digits add up to 13. Sam's wife Susan is less than 10 years older than Sam. Her age is a multiple of 11. <p>Greater depth task on the next page.</p>
8	$3057 - 100 =$															
9	$6^2 =$															
10	$\frac{1}{9}$ of 27 =															
11	$0.75 = \frac{?}{4}$															
12	$30.4 + 59.8 =$															
13	$1492 - 605 =$															
14	$0.84 = ? \%$															

$$\square \div \square = 8$$

Write what the **two missing** numbers could be.

$$(4 + \square) \times \square = 100$$

Write the missing number.

$$30 - 16 = 9 + \square$$

Q4.

Put **brackets** into this expression to make it correct.

$$10^2 \div 10 \div 10 \div 10 \div 10 = 100$$

Greater Depth

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 204th 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 $\frac{1}{3}$ of the age of Jim.
6. Sam's father Cyril is in his 70s. 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.