

(Week 2 day 2)

1. Numbers (integers, fraction, decimals and percentage)

$5/6$ of 114 =	$4/6$ of 114 =	$1/7$ of 91 =	$5/6$ of 102 =	$\sqrt{49} =$
$4.05 - 2.93 =$	$17.4 - 0.41 =$	$4.9 - 0.58 =$	$71.8 - 1.72 =$	$\sqrt{121} =$
$-5 - (-8) =$	$-3 - (-9) =$	$-1 - (-18) =$	$-7 - (-3) =$	$\sqrt{144} =$
$4\frac{3}{4} - 2\frac{2}{3} =$	$4\frac{3}{4} + 2\frac{2}{3} =$	$4\frac{3}{4} \times 8 =$	$3\frac{3}{4} \times 16 =$	$3\frac{3}{7} \times 7 =$
$2800 \div 80 =$	$2747 \div 41 =$	$2772 \div 21 =$	$135 \times 46 =$	$1.28 \times 3.9 =$

2. Complete the table below by rounding the numbers to the indicated appropriate degree of accuracy.

Number	Nearest 1	1 decimal place	2 decimal places	2 significant figures	3 significant figures
17.906					
6.27991					
0.07956					
167.062					

3. Write the following numbers as Roman numbers

576	2496	3278
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4. * If a = 4, b = -2, c = -3.

$a(b + c) =$	$a^2(b - c) =$	$2c(a - c) =$	$b^2(2a + 3c) =$
$c^2(b - 2a) =$	$2a^2(b + c) =$	$2(a + b + c) =$	$3c(a - b - c) =$

5. Equations (multi-steps)

$3(x + 1) = 9$	$4x + -18x = 14$	$2x - 7x + -2 = -17$	$2(x - 6) = 6$
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6. Inequalities

$x + 1 > 5$	$x + 2 < 8$	$x + 4 > 8$	$x - 2 > 4$
$y - 1 \geq 7$	$y - 3 \leq 9$	$y - 2 > 7$	$y + 1 < 11$

7. The width of a rectangle is x cm the length is 3cm longer than the width, the perimeter is 24cm, what are the dimensions of this rectangle?

8. Without dividing, find out if 85 631 724 is divisible by 3. Explain your answer.

Without dividing, find out if 1330564 is divisible by 9. Explain your answer.

9. If Mark goes to the sports center every 6 days and Sam goes to the sports center every 8 days and they met there on 1st January. On what date do they next meet again?

Price

10. Two shops, both sell Kremy Yoghurts, Food Mart (5 for £1.80) and Jim's Store (3 for £1.05), At which shops are Kreemy Yoghurts better value for money?
You MUST show ALL of your working out.

Compound interest

11. A computer operator is paid £10,000 a year. Assuming her pay is increased by 7% each year, what will her salary be in four years time?
12. Toby invested £4500 for 2 years in a savings account.
He was paid 4 % per annum compound interest.
How much did Toby have in his savings account after 2 years?

