

( Week 1 day 3 )

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

$5/6$ of 78 =	$2/6$ of 96 =	$4/5$ of 65 =	$4/6$ of 96 =	$3/5$ of 85 =
$2.04 - 0.29 =$	$1.45 - 0.8 =$	$0.45 + 0.627 =$	$11.3 - 3.3 =$	$1.4 - 0.24 =$
$-12 + 7 =$	$-6 + 19 =$	$-2 - 18 =$	$-17 + 3 =$	$-25 + 3 =$
$15\frac{1}{5} - 2\frac{1}{3} =$	$4\frac{1}{6} + 23\frac{2}{5} =$	$\frac{3}{7} \times 8 =$	$\frac{3}{9} \times 5 =$	$\frac{3}{4} \times 15 =$
$36 \times 82 =$	$975 \div 39 =$	$1620 \div 9 =$	$5.7 \times 7.4 =$	$239 \times 0.6 =$

**2. Simple algebra: If  $x = 3$  and  $y = 4$  find :**

$x + y =$	$2x + 3y =$	$3x - y =$	$xy =$
$3xy$	$2x^2 - 3y^2$	$3(x - 4y) =$	$2x(3x - y) =$

**3. Simplify the following:**

$4a + 5b + 6a + 3b$	$5t + 8u - 8t + u$	$6w - 4x - 8w + 5x$	$4b + 6 - 5b + 2$
$15c + 10r - 6c - 6c + 4r$	$15a - 6b + 4a - 6b + 4$	$6m - 4q + 4q + 6q$	$10b - 5 - 3b + 9$
$3c \times 4r$	$4m \times 3n \times 4$	$6p \times 3st$	$5ab \times 4c$

**4. Simplify the following ratios:**

4:28	12:15:3	50:10:25	33:11:22
24:8:16	100:25	9:72:18	40:8:24

**5. Share the following amounts in the given ratios**

£120 in a 3:4:5 ratio	£45 in a 5:3:1 ratio
50kg in a 7:2:1 ratio	£72 in a 1:3:4 ratio

**6. Equations (multi-steps)**

$7(x - 1) = 49$	$8(4 - x) = 56$	$39 = 3(17 - x)$
$64 = 4(42 - x)$	$45 = 5(7 - x)$	$7(1 - x) = 49$
$7x - 12 = 3x - 4$	$7x - 4 = 5x + 6$	$7x - 3 = 3x + 7$