

## Elementary Campus

### Mathematics – Grade VII

### Revision Worksheet

**Q1) a)** Simplify.

$$6a + 3b - 2a - 5b$$

**b)**  $s = 5t + \frac{1}{2}at^2$

Find the value of  $s$  when  $t = 6$  and  $a = 3$

**Q2)**

a) Expand  $x(x + 8)$

b) Factorize completely.  $6a - 3ab$

c) Solve.  $5x - 6 = x + 3$

**Q3) a)** Expand the brackets and simplify.

i)  $3(2d - 3) + 4(d + 1)$

ii)  $(x - 4)(x - 3)$

b) Factorize  $8p - 3pq$

**Q4) a)** Make  $m$  the subject of formula.

$$q = \frac{m}{7} + r$$

**Q5) v = 3 - 5t**

- a) Workout the value of  $v$  when  $t = 4$ .  
 b) Make  $t$  the subject of the formula.

**Q6) Factorise completely.**  $14xy - 7y^2$

**Q7) a)** Simplify.  $3(2a - b) - b$

b) Factorise.  $x^2 - 8xy$

**Q8) Simplify.**  $3x - 4x + 7x$

**Q9) Expand as a fraction in its simplest form.**

a.  $\frac{x+1}{2} + \frac{x+3}{3} - \frac{5x-1}{6}$

b.  $\frac{2(a-b)}{7} - \frac{2a+3b}{14} + \frac{a+b}{2}$

c.  $\frac{(x+3)}{3} + \frac{5(3x+4)}{6} + 1$

**Q10) Solve each of the following equations.**

a.  $\frac{1}{3}x - 8 = 6$

b.  $\frac{5}{2}y + 3\frac{1}{2} = \frac{2}{3}y + 5$

c.  $2x + 3 = 9$

d.  $2(3y + 5) - 7(y - 4) = 13$