

## YEAR 9 MATHEMATICS MODULE 1

1. Remove brackets from  $3(2x - y)$ .                      Answer =  $6x - 3y$
  
2. Remove brackets from  $5a(3a + 8b)$  .                      Answer =  $15a^2 + 40ab$
  
3. Factorise  $2mh - 8m^2h$ .                      Answer =  $2mh(1 - 4m)$
  
4. Factorise  $2x(5a + 2) - 3y(5a + 2)$ .                      Answer =  $(5a + 2)(2x - 3y)$
  
5. Factorise  $(a + m)(2a - 5m) - (a + m)^2$ .                      Answer =  $(a + m)(a - 6m)$
  
6. Factorise  $cx + cy + 2dx + 2dy$ .                      Answer =  $(x + y)(c + 2d)$
  
7. Solve the following simultaneous equations  $2x + y = 7$  and  $x - y = 2$ .  
Answer:  $x = 3$  ,  $y = 1$
  
8. Factorise  $y^2 - 4$  .                      Answer =  $(y+2)(y - 2)$
  
9. A polygon with 7 sides is called \_\_\_\_\_.                      Answer = Heptagon
  
10. Which of the following are Pythagorean Triple?  
A. 1, 2, 3                      B. 4,1,7                      C. 3,4,5                      D. 2,9,11  
Answer = C

