Rearranging Formulae

GCSE Mathematics • **Higher Tier** • Grades 6–7 • Non-calculator

Name: _____ Class: _____ Total: _____ / 52

Show all your working. Marks are given for correct method as well as the final answer.

1. Make x the subject of $y = x + 7$. **[1 mark]**

Answer: _____

2. Make x the subject of $y = 5x$. **[1 mark]**

Answer: _____

3. Make x the subject of $y = 3x + 2$. **[2 marks]**

Answer: _____

4. Make x the subject of $y = \frac{x}{4} - 1$. **[2 marks]**

Answer: _____

5. Make a the subject of $v = u + at$. **[2 marks]**

Answer: _____

6. Make t the subject of $d = st$. **[1 mark]**

Answer: _____

7. Make h the subject of $A = \frac{1}{2}bh$. **[2 marks]**

Answer: _____

8. Make r the subject of $C = 2\pi r$. **[2 marks]**

Answer: _____

9. Make x the subject of $y = 2(x + 5)$. **[2 marks]**

Answer: _____

10. Make C the subject of $F = \frac{9C}{5} + 32$. **[3 marks]**

Answer: _____

11. Make x the subject of $y = x^2$ (taking the positive root). **[2 marks]**

Answer: _____

12. Make x the subject of $y = \sqrt{x}$. **[2 marks]**

Answer: _____

13. Make r the subject of $A = \pi r^2$. **[3 marks]**

Answer: _____

14. Make x the subject of $y = \sqrt{x+3}$. **[3 marks]**

Answer: _____

15. Make t the subject of $s = \frac{1}{2}gt^2$. **[3 marks]**

Answer: _____

16. Make x the subject of $y = \frac{6}{x}$. **[3 marks]**

Answer: _____

17. Make R the subject of $I = \dfrac{V}{R}$. **[3 marks]**

Answer: _____

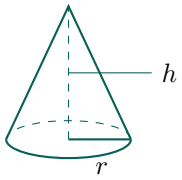
18. Make x the subject of $ax = bx + c$. **[4 marks]**

Answer: _____

19. Make x the subject of $y = \dfrac{x+1}{x-2}$. **[5 marks]**

Answer: _____

20. The volume of a cone is $V = \frac{1}{3}\pi r^2 h$.



(a) Make h the subject. **[3 marks]**

(b) Work out h when $V = 100\pi$ and $r = 5$. **[3 marks]**

Answer: _____

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