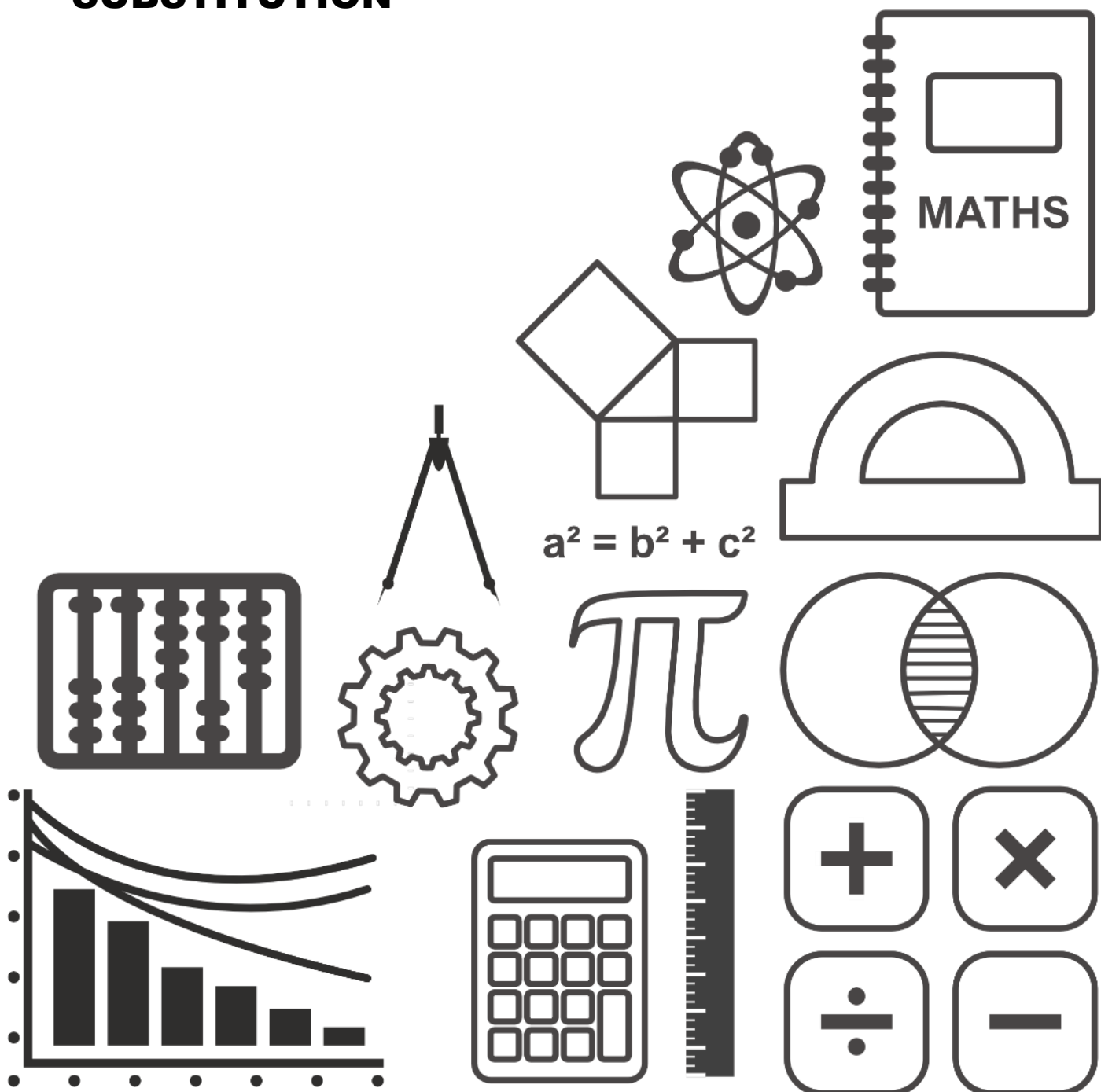


# MATHS DIY

## GCSE TOPIC BOOKLET SUBSTITUTION



1. Find the value of  $3x + 5y$  when  $x = 4$  and  $y = -6$ .

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(2)

2. Find the value of  $5x + 4y$  when  $x = -3$  and  $y = -2$ .

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(2)

3. What is the value of  $4a - 6b$  when  $a = -5$  and  $b = 2$ ?

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.....

(2)

4. What is the value of  $5a + 3b$  when  $a = 2$  and  $b = -4$ ?

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(2)

5. What is the value of  $6d - 7e$  when  $d = -3$  and  $e = 2$ ?

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.....

(2)

6. Find the value of  $4c - 3d$  when  $c = -2$  and  $d = 6$ .

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(2)

7. Find the value of  $2a + 5b - 6c$  when  $a = 2$  and  $b = 4$  and  $c = \frac{1}{3}$ .

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(2)

8. Find the value of  $3a - b + 4c$  when  $a = 3$  and  $b = -1$  and  $c = \frac{1}{2}$ .

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(2)

9. Find the value of  $p - 2q - 6r$  when  $p = 2$  and  $q = 4$  and  $r = \frac{1}{2}$ .

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(2)

10. Find the value of  $x - y - 4z$  when  $x = 9$  and  $y = 3$  and  $z = \frac{1}{2}$ .

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(2)

11. Find the value of  $x^2 - 2y$  when  $x = 9$  and  $y = 3$ .

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(2)

12. Find the value of  $4x^3$  when  $x = -2$ .

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 .....

13. Find the value of  $2(a - 5b) - c$  when  $a = 3$  and  $b = 2$  and  $c = 4$ .

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(2)

14. Find the value of  $a^2 - b^2 + 3c$  when  $a = 3$  and  $b = -1$  and  $c = \frac{1}{2}$ .

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(2)

15. Given that  $a = -6$  and  $b = 3$  and  $c = 4$ , find the value of each of the following expressions.

a)  $\frac{a^2}{4} - a$

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(2)

b)  $2b^3$

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(2)

c)  $\frac{8.5a+b}{c}$

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(2)

16. Given that  $k = -3$  and  $m = 7$  and  $p = 10$ , find the value of the following expressions.

a)  $\frac{5(k^2-m)}{p}$

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(2)

b)  $(2m)^3$

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 .....

(2)

c)  $\frac{6(p^2-10m)}{k}$

.....  
 .....

(3)

d)  $(2k)^3$

.....  
 .....

(2)

e)  $\frac{6m(k^2-p)}{k}$

.....  
 .....

(3)