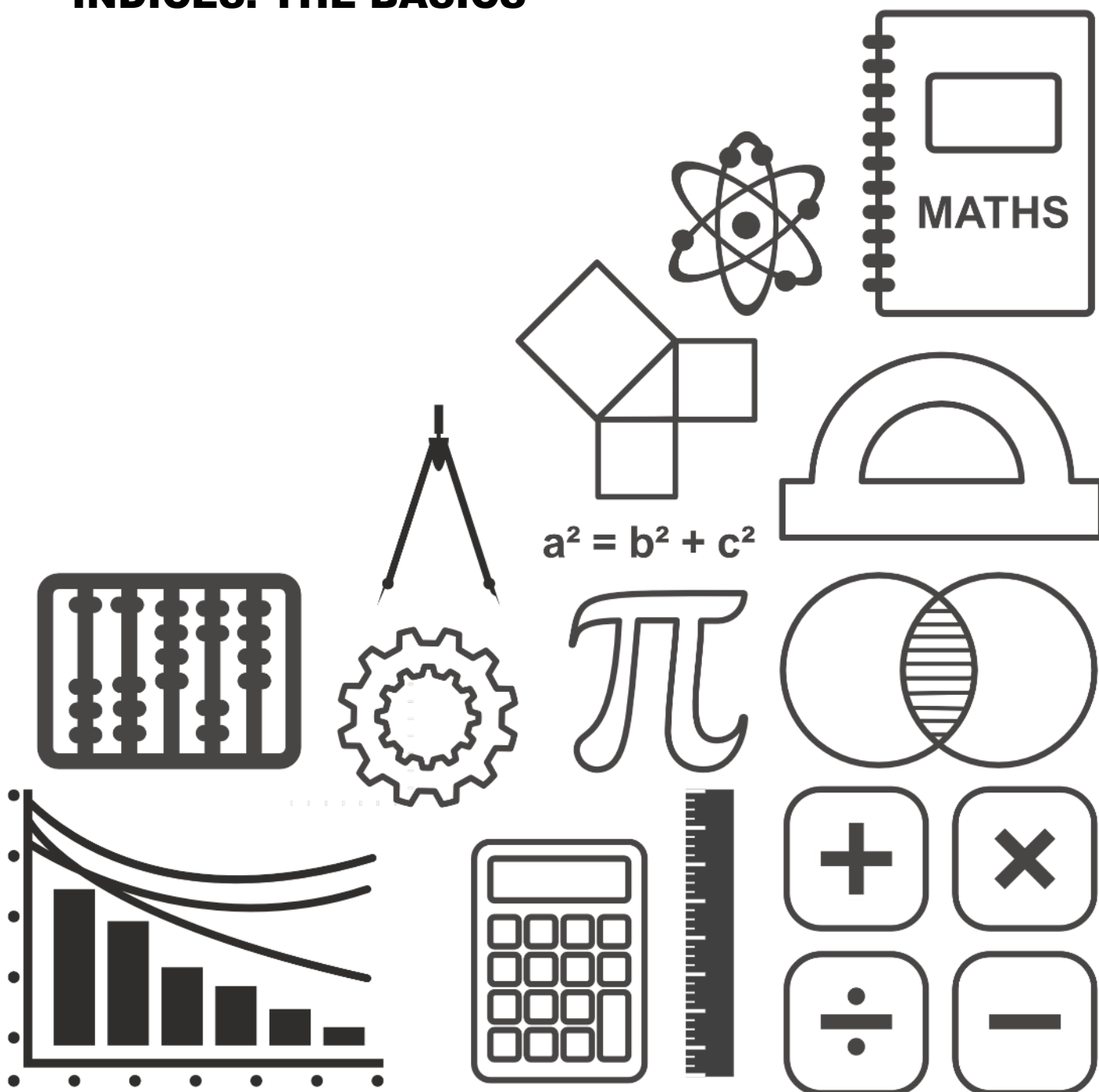


MATHSDIY

GCSE TOPIC BOOKLET INDICES: THE BASICS



1. Find the value of

$$2^3$$

.....

(1)

2. Find the value of

$$\sqrt{9}$$

.....

(1)

3. Find the value of

$$2^3 \times 3^2$$

.....

(1)

4. Find the value of

$$3^7 \div 3^5$$

.....

(1)

5. Find the value of

$$7^0$$

.....

(1)

6. Find the value of $\sqrt{16}$

.....

(1)

7. Find the value of

$2^3 \times 5^2$

.....

(1)

8. Find the value of

$5^4 \div 5^2$

.....

(1)

9. Find the value of

6^2

.....

(1)

10. Find the value of $\sqrt{81}$

.....

(1)

11. Find the value of

$4^2 \times 2^2$

.....

(1)

12. Find the value of

$$8^3 \div 8^2$$

.....

(1)

13. Write down the square root of 64.

.....

(1)

14. Write down the cube root of 8.

.....

(1)

15. Simplify $(\sqrt{9})^2$

.....

(1)

16. Simplify $m^4 \div m^2$

.....

(1)

17. What whole number is nearest to the value of $\sqrt{27}$?

.....

(1)

18. What whole number is nearest to the value of $\sqrt{101}$?

.....

(1)

19. Evaluate

$$(\sqrt{4})^5$$

.....

(1)

20. Using only numbers between 20 and 30 inclusive, write down

a) a square number

.....

b) a cube number

.....

(2)

21. Write down the square root of 121.

.....

(1)

22. Write down the cube root of 125.

.....

(1)

23. Evaluate

$$\sqrt{144} \times \sqrt{9}$$

.....

(2)

24. Simplify

$$2m^3 \times 5m^2$$

.....

(2)

25. Arrange these in ascending order.

$$\sqrt{100} \quad 3^2 \quad \sqrt{25} \times 2^2 \quad (\sqrt{4})^3$$

.....

(2)

26. Simplify

$$4n^3 \times 3n^2$$

.....

(2)

27. Simplify

$$3w^4 \times 3w^2$$

.....

(2)

28. Simplify

$$(3m)^4$$

.....

(2)

29. Simplify

$$t^0$$

.....

(1)

30. Simplify

$$4x^5 \div 2x^2$$

.....

(2)

31. Simplify

$$16x^6 \div 8x^4$$

.....

(2)

32. Simplify

$$14y^4 \div 2y^2$$

.....

(2)

33. Simplify

$$2m^2n^3 \times 5m^2n^2$$

.....

(2)