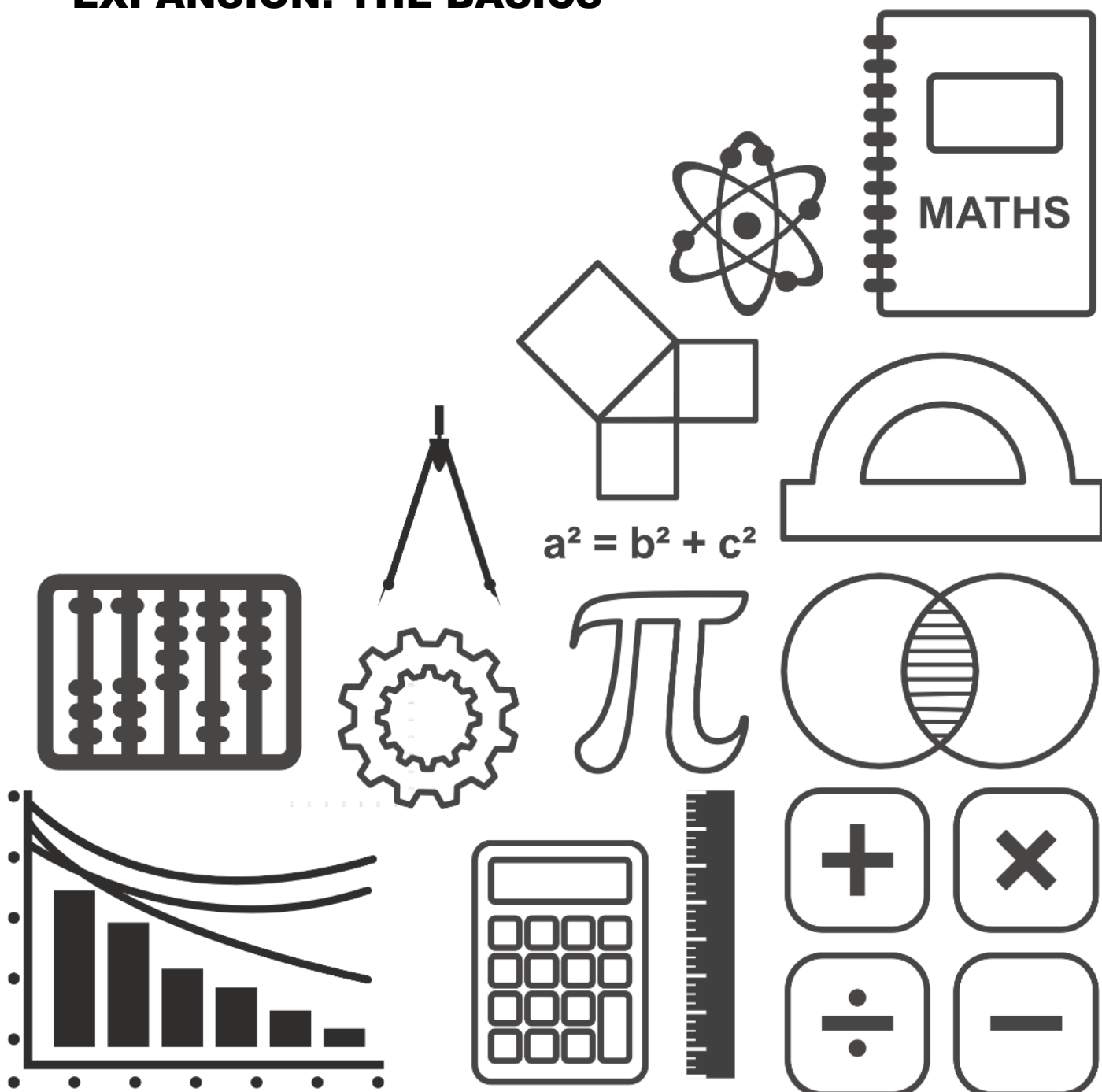


MATHSDIY

GCSE TOPIC BOOKLET EXPANSION: THE BASICS



1. a) Expand $5(x - 2)$.

.....
 (1)

b) Expand $4(x - 3)$.

.....
 (1)

c) Expand $6(x - 5)$.

.....
 (1)

2. a) Expand and simplify $4(3x - 1) + 3(x - 5)$.

.....

 (2)

b) Expand the following expression, simplifying your answer as far as possible.

$$4(x - 2) + 3(2x + 5).$$

.....

 (2)

c) Expand $2x(x^2 + 3)$.

.....
 (2)

3. a) Expand and simplify: $4(2y - 3) - 3(y + 5)$

.....

(2)

b) Expand $x^3(3x - 5)$.

.....

(2)

4. a) Expand $5(x + 8)$.

.....

(1)

b) Expand $x(x^2 + 7)$.

.....

(2)

5. a) Expand and simplify: $4(x + 5) - 3(2x - 4)$

.....

(2)

b) Expand $5y(2y^2 - 3)$.

.....

(2)

6. a) Expand and simplify $4(2x + 3) - 3(x + 2)$.

.....

(2)

b) Expand the following expression, simplifying your answer as far as possible.

$$3(4a - 2c) - 2(2a + 4c).$$

.....

(2)

7. a) Expand and simplify $3(2a - 4) - 3(a - b)$.

.....

(2)

b) Expand the following expression, simplifying your answer as far as possible.

$$3(4r - 2s) - 2(r + 4s).$$

.....

(2)