

Simplifying and expanding

Year 7 | Key Stage 3 | 12 questions, 28 marks

KS3 Maths topic practice



Scan for the solutions

Name: _____

Date: _____

Score: _____ / 28

1 Simplify $7c - 2c + 4c$ (1 mark)

Answer _____

2 Simplify $6x + 3y - 2x + 5y$ (2 marks)

Answer _____

3 a. Simplify $5 \times 2m$
b. Simplify $n \times n \times n \times n$
c. Simplify $3c \times 4d$ (3 marks)

Answer _____

4 Simplify
a. $18p \div 6$
b. $4a \times 5b$
c. $24xy \div 8y$ (3 marks)

Answer _____

5

a. Simplify $8x + 5 - 3x + 2$ b. Simplify $2g \times 5g$

(3 marks)

Answer _____

6

The sides of a triangle are $(2a + 3)$ cm, $(4a - 1)$ cm and $(a + 5)$ cm.

Write an expression for the perimeter of the triangle. Give your answer in its simplest form.

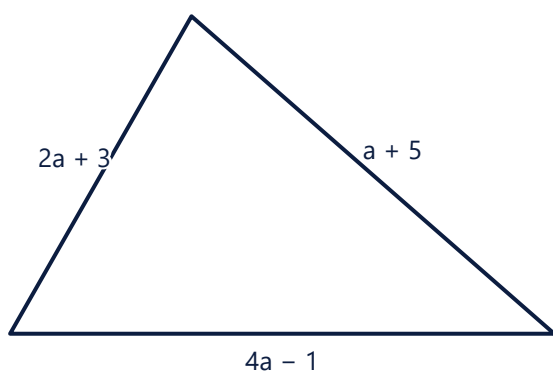


Diagram NOT accurately drawn

(2 marks)

Answer _____

7

Expand

a. $3(x + 4)$ b. $5(2y - 3)$ c. $a(a + 6)$

(3 marks)

Answer _____

- 8 Oliver expands $4(3m - 2)$ and writes

$$4(3m - 2) = 12m - 2$$

Explain the mistake Oliver has made and write the correct answer.

(2 marks)

Answer _____

- 9 Expand and simplify $2(x + 5) + 3(x + 1)$

(2 marks)

Answer _____

- 10 Priya says that $(5x - 3) - (2x - 7) = 3x - 10$

Priya is wrong. Explain the mistake she has made.

(1 mark)

Answer _____

- 11 Expand and simplify $4(2a + 3) - 2(a - 5)$

(3 marks)

Answer _____

- 12 Amara makes a poster from two rectangles of card.

Rectangle A is 3 cm by $(x + 4)$ cm.

Rectangle B is 5 cm by $(2x - 1)$ cm.

Show that the total area of the card is $(13x + 7) \text{ cm}^2$.

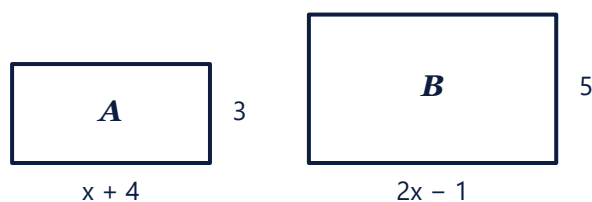


Diagram NOT accurately drawn

(3 marks)

Answer _____

End of questions | Total 28 marks