

Year 7 Questions - Algebraic Manipulation.

Level 3 to 5 Questions.

1. Simplify the following

(a) $3x + 2x - x$

.....

Answer

(1)

(b) $5x + 3y - 2x + 4y$

.....

Answer

(2)

(c) $3 \times a \times 4$

.....

Answer

(1)

(Total 4 marks)

2. Simplify

(a) $c + 4c + 2c$

.....

Answer

(1)

(b) $d \times d \times d$

.....

Answer

(1)

(c) $3p + 5q - 2p + q$

.....

.....

Answer

(2)

(Total 4 marks)

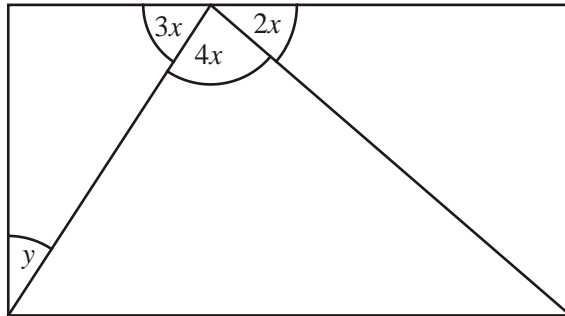
3. (a) Simplify $2x + 3x + 4x$

.....

Answerkm

(1)

(b) The diagram shows a triangle inside a rectangle.



Not drawn accurately

(i) Work out the value of x .

.....

Answerdegrees

(2)

(ii) Work out the value of y .

.....

Answerdegrees

(3)

(Total 6 marks)

4. Ali is x cm tall.

- (a) Suki is 5 cm taller than Ali.
Write down an expression in x for Suki's height.

.....

Answer cm

(1)

- (b) Ali's sister is 2 cm shorter than Ali.
Write down an expression in x for the height of Ali's sister.

.....

Answer cm

(1)

- (c) Ali's father is twice as tall as Ali.
Write down an expression in x for the height of Ali's father.

.....

Answer cm

(1)

- (d) Darius has a height, in cm, given by the expression $2x - 65$
He is 115 cm tall.

Solve the equation

$$2x - 65 = 115$$

to find Ali's height.

.....

.....

.....

Answer cm

(2)

(Total 5 marks)