

**PLEASE DO NOT USE SPACES WHEN ENTERING YOUR ANSWERS!!!**

17. Simplify the following expression:

(a)  $3m + 8m + 6z - 2z$

14. (a) Simplify by collecting the like terms.

$16m - 4m + m$

18. (a) Simplify

$6m + p + 3p - 2m$

14. Simplify

(a)  $6d - 2h + 5h - d$

14. Simplify:

(a)  $12m + 4g - 8m + g$

18. (a) Simplify:

$4d + 3b - 2d + b =$

16. (a) Simplify

$3b + 5b - 2b$

(ii)  $6z - 4z + 8z$

14. Simplify

(a)  $2g - 3g + 5g$

18. (a) Simplify by collecting the like terms.

$8d - 5d + 3d$

(b) Simplify,

(i)  $5m + 3n + n - 2m$ ,

16. (a) Simplify

$$4c + 2d - c + 8d.$$

13. Simplify

(a)  $3x + x + 7x$ .

18. The length and width of a rectangle are shown in the diagram below.



(a) (i) Write down an expression for the perimeter of the rectangle.

Answer \_\_\_\_\_ cm [1]

(ii) Simplify the expression which you wrote down in part (i).

Answer \_\_\_\_\_ cm [1]

Given that the perimeter of the rectangle ABCD is 14 cm,

(b) (i) Write an equation to show this information,

Answer \_\_\_\_\_ [1]

(ii) Solve the equation for x.

Answer \_\_\_\_\_ cm [2]

(c) Use the solution for x to write down the dimensions of the rectangle.

Answer \_\_\_\_\_ cm, \_\_\_\_\_ cm [2]

**LIVEWORKSHEETS**