

## Intermediate Maths June 2017 P1 Q1bc

(b) Find the value of  $2x + 7y$  when  $x = -3$  and  $y = 10$ . [2]

(c) Simplify the expression  $8k + 3m - 2k - 8m$ . [2]

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## Intermediate Maths Summer 2018 P2 Q1

(a) Solve  $\frac{x}{4} = 7$ . [1]

(b) Simplify  $3f + 7g + f - 4g$ . [2]

(c) Use the formula  $5p + 2q = t$  to find the value of  $q$  when  $p = 4$  and  $t = 24.6$ . [3]

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## Intermediate Maths Sample 1 P1 Q2bc

(b) Simplify the expression  $7x + 3y - 5x - 6y$ . [2]

(c) Using the formula  $N = 7D + 3E$ , find the value of  $E$  when  $N = 26$  and  $D = 2$ . [2]

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## Intermediate Maths Nov 2017 P1 Q2

Circle either TRUE or FALSE for each of the following statements. [3]

The expression $g \times g \times g$ can be written as $3g$	TRUE	FALSE
The expression $7y - y$ can be written as $7$	TRUE	FALSE
$\frac{a}{4} \div a = \frac{1}{4}$	TRUE	FALSE
$\frac{a}{2} + \frac{a}{2} = a$	TRUE	FALSE
When $a = 1$ , $b = 2$ and $c = 3$ , $a + b + c = abc$	TRUE	FALSE

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## Intermediate Maths Nov 2018 P1 Q3

- (a) Simplify the expression  $15x - 2y - 7x - 4y$ . [2]

- (b) Solve the equation  $2m - 7 = 12$ . [2]

- (c) Calculate the value of  $5f + 3g$  when  $f = -4$  and  $g = 7$ . [2]

## Intermediate Maths Sample 1 P1 Q3b

- (b) The value of  $x$  shown in the triangle below is

$40^\circ$

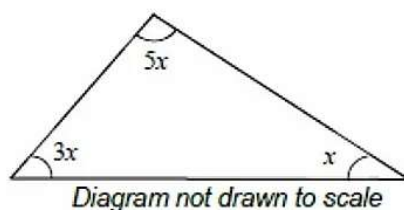
$20^\circ$

$9^\circ$

$180^\circ$

$\frac{1}{9}^\circ$

[1]



## Intermediate Maths Nov 2016 P2 Q4a

- (a) Solve the equation  $3x - 2 = 10$ . [2]

## Intermediate Maths Nov 2016 P1 Q4bc

- (b) Simplify the expression  $10g - 5f - 3g + 3f$ . [2]

- (c) Using the formula  $2T = M + 3K$ , find the value of  $K$  when  $T = 11$  and  $M = 4$ . [2]

## Intermediate Maths Nov 2017 P1 Q5bc

- (b) Expand  $5(3x - 2)$ . [1]

- (c) Solve  $9x + 3 = 4x + 5$ . [3]

## Intermediate Maths Sample 1 P1 Q6

(a)  $7x - 4 = 2x + 11$  [3]

(b)  $3(2x + 7) = 9$  [3]

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## Intermediate Maths Sample 2 P1 Q6

Solve each of the following equations.

(a)  $\frac{x}{4} = 8$  [1]

(b)  $\frac{7}{x} = 14$  [1]

(c)  $9x + 4 = 2x + 39$  [3]

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## Intermediate Maths Nov 2016 P1 Q7

Solve each of the following equations.

(a)  $\frac{w}{5} = 10$  [1]

(b)  $\frac{42}{x} = 7$  [1]

(c)  $13y - 5 = 9y + 27$  [3]

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## Intermediate Maths Nov 2018 P1 Q10a

(a) Expand  $3x(x^2 - 2)$ . [2]

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## Intermediate Maths Summer 2018 P1 Q12a

(a) Expand and simplify the following expression. [4]

$$x(5x - 2) - 3(x^2 - 2x + 7)$$

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## Intermediate Maths June 2017 P2 Q9

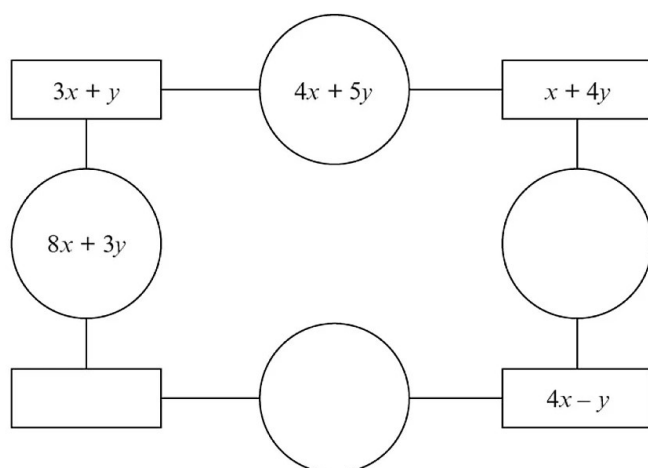
Look at the diagram below.

The expression in each circle is found by **adding** the expressions in the rectangles on either side of the circle.

Complete the diagram by writing expressions in the blank circles and the blank rectangle.

You must simplify your expressions.

[3]



## Intermediate Maths Sample 2 P1 Q16a

(a) Solve the equation  $\frac{8-x}{3} = 5-x$ .

[3]