

CHAPTER TEST

Name:	Date: Duration: 55 min
Class:	Score: / 40 marks

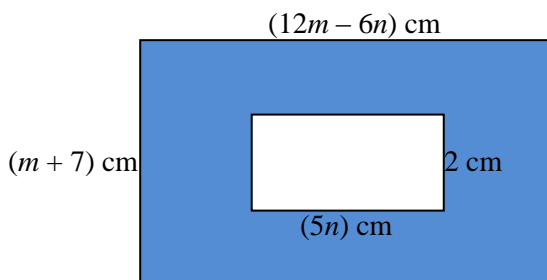
Use of calculators is allowed. Show your workings clearly.

1 Write an algebraic expression for each of the following statements.

(a) The cost of x litres of petrol at \$1.50 per litre. [1]

(b) Seven times a number which is 12 more than y [1]

2 Find the perimeter of the shaded region in terms of m and n .



.....cm [3]

3 Given that $a = 3$, $b = -1$ and $c = 4$ evaluate the following.

(a) $2a - b^2 - c$ [2]

(b) $\frac{2a(c - 3b)}{4c + b}$ [3]

4 Simplify each expression.

(a) $5(x + 6y) - 7y$

..... [2]

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

..... [3]

(c) $\frac{2x}{3} - \frac{2(x - 4y)}{5}$

..... [3]

5 Factorise each expression completely.

(a) $4m - 6mp + 18mq$

..... [1]

(b) $20z - 10(xz + 6yz)$

..... [2]

6 Solve the following linear equations.

(a) $5w = 15$

..... [1]

(b) $3 + 0.7x = -0.2x - 0.6$

..... [2]

(c) $\frac{2}{3} = \frac{12}{y-1}$

..... [3]

(d) $\frac{5z-1}{2} - \frac{5-7z}{3} = \frac{6-z}{8}$

..... [4]

For numbers 7 to 9: Form an equation in x to solve the given problem.

- 7 The sum of two even numbers is 30.
The larger number is 12 more than half of the smaller number.
If the smaller number is x , find the two even numbers.

..... [3]

- 8 Three families, A , B and C share 220 kg of rice.
Family B gets twice as much as family A , and family C gets one-third as much as family B .
Find the number of kg of rice each family received.

.....kg [3]

- 9 Mr Norel is 41 years old now and his eldest daughter is 7 years old.
When will Mr Norel be thrice as old as his eldest daughter?

..... [3]

End of Test

“It is the story that matters not just the ending.”
– [Paul Lockhart](#)