

Pocket answer section for SQA Mathematics Standard Grade Credit Level 1999, 2000 and 2001

© Copyright 2001 Scottish Qualifications Authority, All Rights Reserved
Published by Leckie & Leckie Ltd, 8 Whitehill Terrace, St Andrews, Scotland, KY16 8RN
tel: 01334 475656, fax: 01334 477392, hq@leckieandleckie.co.uk, www.leckieandleckie.co.uk

Mathematics Credit Level 1999

1. £12 000
2. 2.4×10^5
3. $x < \frac{2}{3}$
4. DG = 35.5 km
5. $T = \frac{1}{2}S - 2$
6. $(3x + 1)(x - 2)$
7. (a) £26.95
(b) $C = 12.25 + 0.35t$
8. (a) 3, 7, 10
(b) $S_6 = -4$
(c) $[p] + [q] + [p + q] + [p + 2q] + [2p + 3q] + [3p + 5q] = 8p + 12q = 4(2p + 3q) = 4 \times 5^{\text{th}} \text{ term}$
9. 367.45 cm
10. 0.45 m^3
11. 2.7 litres
12. $x = 221.8, 318.2$
13. (a) $2x + 3y = 580$
(b) $x + y = 250$
(c) $x = 170$
14. 9.38 m

$$15. \quad (a) \quad x + x + BC + CD = 6 \\ 2BC = 6 - 2x \\ BC = 3 - x$$

$$(b) \quad x(3 - x) + x(3 - x - x) \\ = 3x - x^2 + 3x - x^2 - x^2 \\ = 6x - 3x^2$$

$$(c) \quad A(1) = 3\text{m}^2$$

$$16. \quad (a) \quad 4\sqrt{2}$$

$$(b) \quad a^{-3} + 4a^2$$

$$(c) \quad x^3 + x^2 - 10x + 8$$

$$17. \quad (a) \quad 32.7 \text{ m}$$

$$(b) \quad \text{length of side} = l \\ 2l^2 = (32.7)^2 \\ l = 23.122 \\ l \approx 23 \text{ m}$$

$$18. \quad (a) \quad f(4) = 81$$

$$(b) \quad x = 3/2$$

$$19. \quad (a) \quad d = kt^2 \text{ or } \frac{d}{t^2} \text{ is a constant}$$

$$(b) \quad d = 5t^2$$

$$(c) \quad \text{distance is multiplied by 36}$$

Mathematics Credit Level 2000

$$1. \quad 3410$$

$$2. \quad 2.36 \times 10^{-2}$$

$$3. \quad V = \frac{3}{4}t + 5$$