Forming Equations

Mark Scheme

1. (a) $12m$ 1

               B1 for 12m

    (b) $48c + 12m$ 2

               B2 for 48c + 12m
               (B1 for 48c)

                                          [3]

2. (a) $12x$ 1

               B1 oe

    (b) $12x + 10y$ 2

               B2 oe ft from (a)
               (B1 12x + multiple of y or 10y seen)
               SC B1 for x = 12x + 10y OR y = 12x + 10y

                                          [3]

3. (a) $2n$ 1

               B1 for 2n or n + n OR 2 × n OR n × 2 OR n2

    (b) $2n + 15$ 1

               B1 for "2n" + 15 oe

    (c)   20q   1

               B1 cao

                                          [3]

4. (a) $4x$ 1

               B1 cao accept 4 × x

    (b) $x + 3$ 1

               B1 cao accept x × 3

    (c) $4(x + 3)$ or
          $4x + 12$ 1

               B1 cao 4 (x + 3)

                                          [3]

5. (a) $7y$ 1

            B1 for 7y oe

     (b) $21y$ 2

         "$7y$"$\times 3$

            M1 for"7y"× 3
            A1 for 21y or y21

                                                                         [3]

6. (a) $3x$ 1

            B1 cao Accept 3 × x, x3, x × 3, x + x + x

     (b) $x - 9$ 1

            B1 for x – 9 cao

                                                                           [2]

7. (a) 70   2

         $(4 + 3) \times 10$

            M1 for (4 + 3) × 10
            A1 cao

     (b) 9   2

         $120 \div 10 - 3$

            M1 for $\dfrac{120}{10}$ or 12 seen eg 12 × 10 = 120

            A1 cao

                                                                           [4]

8. 8   3

$163.25 - 35.50 = 127.75$
$127.75 \div 18.25 = 7$

            M1 163.25 – 35.50 (or sight of 127.75)
            M1 (dep) "127.75" ÷ 18.25
            A1 cao
            SC: M2 for 7 days

                                                                         [3]