

1. y is 5 less than the square of the sum of p and q.
   Write down a formula for y in terms of p and q. [2]
   0580/42/M/J/10 Q8(a)

2. The cost of a cup of tea is t cents.
   The cost of a cup of coffee is (t + 5) cents.
   The total cost of 7 cups of tea and 11 cups of coffee is 2215 cents.
   Find the cost of one cup of tea [3]
   0580/23/M/J/11 Q10)

3. Oranges cost 21 cents each.
   Alex buys x oranges and Bobbie buys (x + 2) oranges.
   The total cost of these oranges is $4.20 .
   Find the value of [3]
   0580/41/O/N/19 Q7(a)

4. Pavan saves $\$x$ each month.
   His two brothers each save $4 more than Pavan each month.
   Altogether the three boys save $26 each month.
   (a) Write down an equation in x. [1]
   (b) Solve your equation to find the amount Pavan saves each month. [2]
   0580/22/F/M/15 Q10)(a)

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5. The cost of a loaf of bread is x cents.
   The cost of a cake is $(x - 5)$ cents.
   The total cost of 6 loaves of bread and 11 cakes is \$13.56 .
   Find the value of x [4]
   0580/43/O/N/15 Q7(a)

6. The cost of a bottle of juice is 5 cents more
   than the cost of a bottle of water.
   Mohini buys 3 bottles of water and 6 bottles of juice.
   The total cost is \$5.25.
   Find the cost of a bottle of water.
   Give your answer in cents. [4]
   0580/43/O/N/11 Q5(a)

7. Marcos buys 2 bottles of water and 3 bottles of lemonade.
   The total cost is \$3.60.
   The cost of one bottle of lemonade is \$0.25 more
   than the cost of one bottle of water.
   Find the cost of one bottle of water. [4]
   0580/43/O/N/12 Q5(a)

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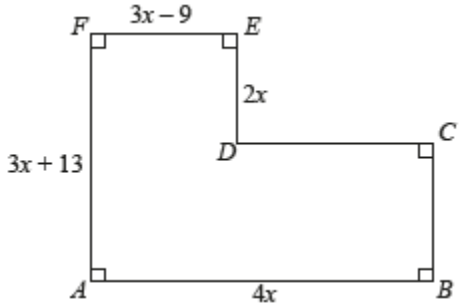
8. Vanessa buys some books and some pencils.
   Each book costs $12 **more** than each pencil.
   The total cost of 5 books and 2 pencils is $64.20.
   Find the cost of one pencil
   0580/43/O/N/10 Q1(d)

9. Esme buys x magazines at $2.45 each and y cards at $3.15 each.
   (a) Write down an expression, in terms of x and y,
   for the total cost, in dollars, of the magazines and the cards. [2]
   (b) Esme spends $60.55 in total. She buys 8 magazines.
   How many cards does she buy? [2]
   0580/22/O/N/19 Q15)

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10. The area of shape ABCDEF is 24 cm^2.



NOT TO SCALE

All lengths are in centimetres.

(i) Show that $5x^2 + 17x - 12 = 0$ [3]

(ii)Solve, by factorising, the equation $5x^2 + 17x - 12 = 0$

You must show all your working [4]

0580/42/O/N/15 Q5(a)(i)

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Answers

Q1) $y = (p + q)^2 - 5$	Q6) 55
Q2) 120	Q7) 0.57
Q3) 9	Q8) 0.6
Q4) $x + x + 4 + x + 4 = 26$ (b)6	Q9) (a) $2.45x + 3.15y$ (b)13
Q5) 83	Q10) $4x(3x + 13) - 2x(4x - \{3x - 9\}) = 24$ (ii)3/5 , -4

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