15. The price of a new mobile phone is researched on 6 different websites.
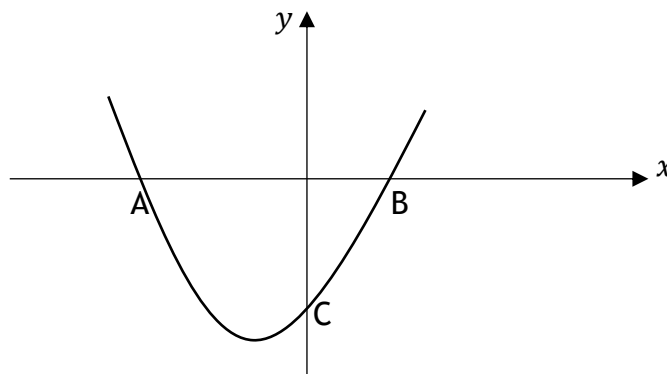Their prices, in pounds, are shown below.

$$120 \quad 115 \quad 142 \quad 152 \quad 132 \quad 143$$

a) Calculate the mean and standard deviation of these prices.

b) The same model of mobile phone is researched in the high street.
The mean price is £148 and the standard deviation is 2.95.

Make two valid comments about the cost of the mobile phone.

16. The diagram below shows part of the graph with equation $y = x^2 + 5x - 14$.

a) State the coordinates of A and B, the roots of the equation.
b) State the coordinates of C, the point where the graph intersects the y axis.

17 a) Fully factorise
$$3p^2 - 48$$

b) Hence simplify
$$\frac{3p^2 - 48}{2p^2 + 5p - 12}$$

18. Find the equation of the straight line passing through (-2,3) and parallel to the line with equation $2x - 5y + 6 = 0$.

19. Line L_1 has equation $3x + 2y = 11$.
Line L_2 has equation $4x - 3y = 26$.
Find the point of intersection of these lines.

20. A function has equation $f(x) = x^2 + 8x - 4$.
Write the function in the form $f(x) = (x + a)^2 + b$ and state the coordinates of its turning point.

21. Expand and simplify $(2x - 5)(x + 2)(x - 3)$