Paper 1

1.   .88

2. $1\frac{1}{2}$

3. $x < 1$

4. $f(-3) = -6$

5.   10

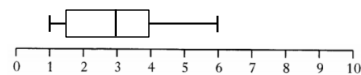6a. $(p + 2q)(p - 2q)$ b. $\frac{p-2q}{3}$

7. $y = \frac{5}{2}x + 5$

8. $x = 120°,\ 240°$

9. $x^3 + x^2 - 13x + 3$

10a. median $= 3$, Q1 $= 1.5$, Q3 $= 4$ b.   Visits to the cinema

10c. On average the students went to football matches than to the cinema.

The number of times the students visited the cinema was more consistent.

11. $x = 4,\ x = -1$

12. y^2

13a. Min T.P. $(1, -16)$ b. $x = 1$

14a. $\sqrt{5}$ 14b. $\frac{1+x}{x^2}$

National 5 Practice Paper B

Answers

Paper 2

1. 3.431×10^{-3} kilograms

2. £125

3a. $\bar{x}$ =73, s=10.5

3b. On average, milk is the same price in both types of shop.

   The price of milk is more consistent in supermarkets.

4. 81.9°

5. 2000 cm^3

6. x = 0.3, -1.8

7. d = 0.5 metres

8. 3 years

9. 190.8 kilometres

10. $p = \frac{r+2t}{3}$

11a. F (5, 3, 0) b. G (0, 3, 0) c. $\sqrt{35}$

12a. 10.9 metres b. 30 seconds and 150 seconds