National 5 Practice Paper B

Answers

Paper 1

1. 0.88

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 $= 3,\ Q_1 = 1.5,\ Q_3 = 4$ b. 1.25

10c. On average the students went to more football matches than to the cinema since $5 > 3$.

The number of times the students visited the cinema was more consistent since $1.25 < 3$.

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

12. y^2

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

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

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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 since $73 = 73$.

   The price of milk is more consistent in supermarkets since $10 \cdot 5 < 17 \cdot 7$.

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