

National 5 Practice Paper I

Answers

Paper 1

1. $3\frac{1}{2}$

2. $x < 1$

3. $(2p + 3)(p - 4)$

4. a) $S = -4t + 130$ (b) £10

5. 113.04 cm^3

6. $x = 7, y = -2$

7. 540ml

8. a) $\sqrt{3}$ (b) $\sqrt{3}$

9. 750g

10. 45°

11. $6\sqrt{2}$

12. a) $\frac{40}{x}$ (b) $\frac{40}{x+5}$ (c) $\frac{200}{x(x+5)}$

13. a) $(-2, -16)$ (b) $(6, -16)$ (c) $y = (x - 14)^2 - 16$

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Paper 2

1. £1 158 000 000 000
2. $\begin{pmatrix} 5 \\ -1 \end{pmatrix}$
3. -9
4. 1022mm^3
5. $G(0, 2, 2)$ $Q(1, 2, 1)$
6. y^2
7. a) $-1/2$ (b) $(0, 3)$
8. 313 inches^2
9. $b^2 - 4ac = -31$ Since $b^2 - 4ac < 0$ there are no real roots
10. 126.9°
11. 21cm
12. 5
13. 8.6m
14. No since $0.522 > 0.5$
15. a) 3.875m (b) 3.5m