National 5 Practice Paper D

Answers

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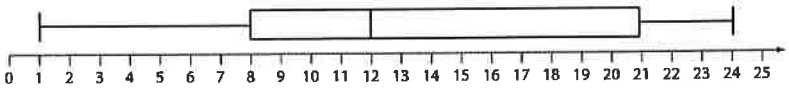
Paper 1

Q1. $m_{AB} = -\frac{5}{4}$

Q2. $\frac{11}{5}$ or $2\frac{1}{5}$

Q3. $y = 2x + 1$

Q4. 

Q5. 400 grams

Q6. $h = f - g$ or equivalent

Q7. a P(-2, -16) b Q(6, -16) c $y = (x - 14)^2 - 16$

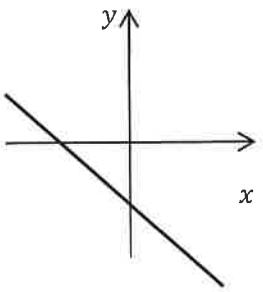
Q8. $\frac{7m+3}{m(m+1)}$

Q9. a = 4, b = 3

Q10. $\frac{4}{3}$

Q11. $4\sqrt{3}$

Q12. Proof

Q13. 

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Paper 2

Q1. £165 000

Q2. a (i) 16.5 mm (ii) 1.87 mm (2dp)

Q2. b (i) 20.5 mm (ii) 1.87 mm (2dp)

Q3. $x = 228.6°, 311.4°$

Q4. a $14x + 4y = 55$

b $13x + 6y = 54.5$

c Adult entrance fee £3.50. Child entrance fee £1.50.

Q5. a $x = -3$

b $y = (x + 3)^2 - 4$

c C(0,5)

Q6. a 15.597... m b 111.6 m^2 (1dp)

Q7. 800 mm

Q8. $k = \pm 4$

Q9. 1902.1 cm^3 (1dp)

Q10. $\frac{7x+9}{x(x+3)}$

Q11. a proof b The lawn is 6 metres in length.