

GCSE

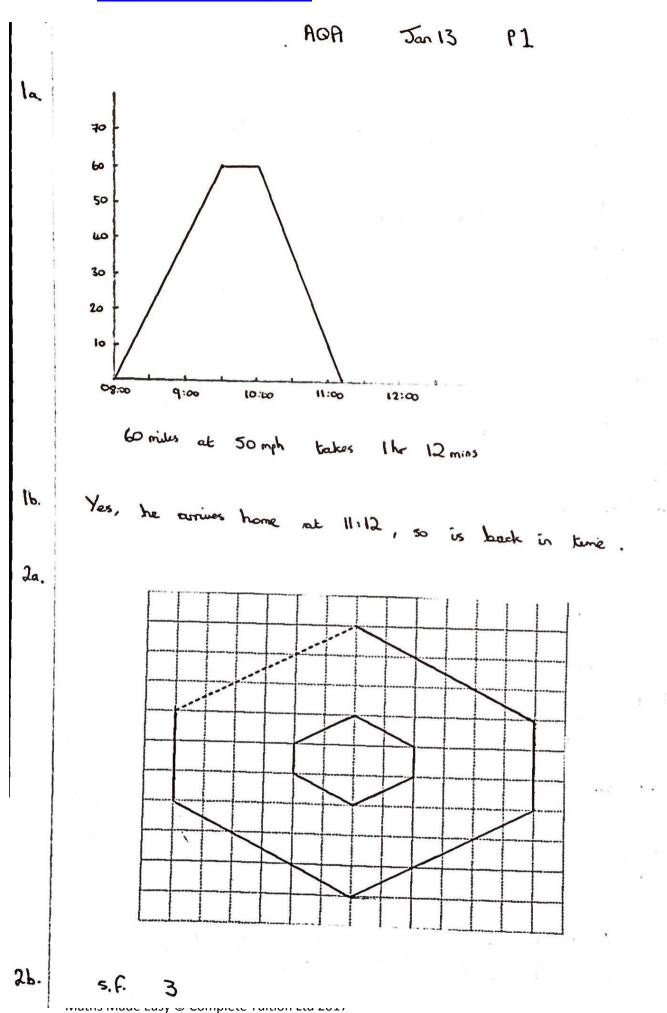
GCSE Maths

Model Solutions for AQA Paper 1 January 2013

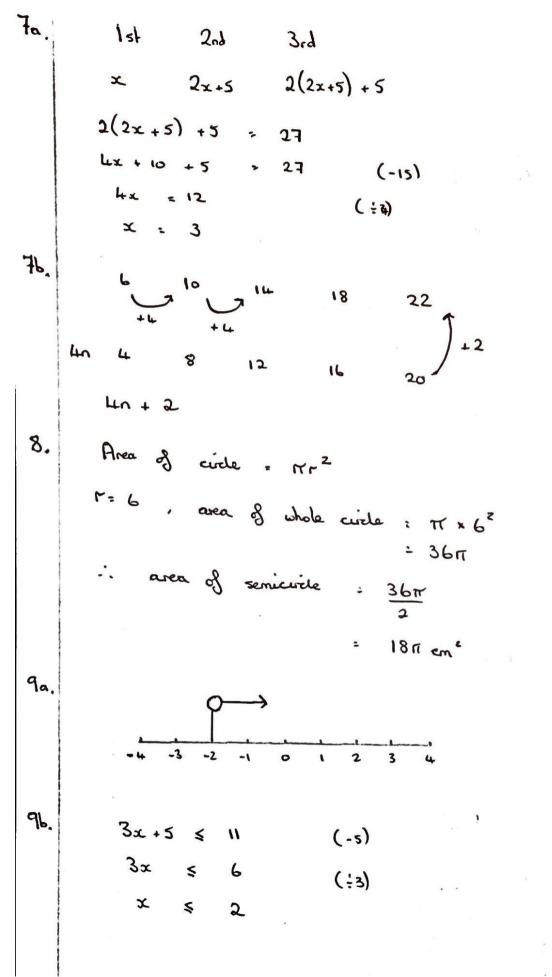
Name:



Total Marks:



3.	5x - 9 = 3x + 11 (-3x) 2x - 9 = 11 (+9)
	$2x = 20$ ($\frac{1}{2}2$) x = 10
40.	d = 5xt 20 mins = $\frac{1}{3}$ hour
	d = 75 x Y3 = 25 km
22	5m = 8km
	50 mph : 80 kmph
	Scooter travels at 75 kmph
	75 kmph < 80 kmph : slower than speed limit
Sa.	$3^3 \cdot 3 \times 3 \times 3 = 27$
5L,	3 : 3×3×3×3 : 81
56.	729 × 2187 = 1594 323
	3° × 3 ⁷ : 3 ¹³
-	x = 13
Sc.	$\frac{2187}{9} = \frac{3^3}{3^2} = 3^5$
6.	4 12 10 26 15 5 6 26 60 60 60
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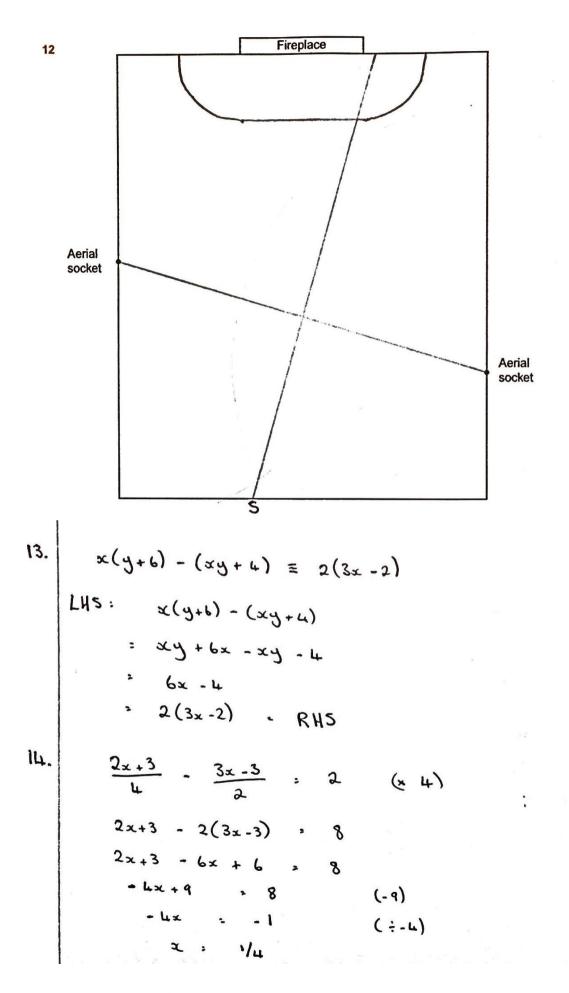


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10.
$$\mu = 7 \times 9 = 11$$

median = x
 $x = 7, 7, by = 8$
 $\mu = 7 = 8 + 9 = 11$
mean = $\frac{\mu + 7 + 8 + 9 + 11}{5} = 8 (x5)$
 $\mu + 7 + 8 + 9 + 11 = 100$
 $30 + 9 = 10$
 $30 + 9 = 10$
 $y = 10$
 $y = 10$
11. $V = \pi r^2 h$, $r = 10$, $h = \mu$, $\pi \approx 3.1$
 $V = 3.1 \times 10^6 \times \mu$
= 3.1 × 100
= 1240 cm^3

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mo -m

15a. Boys
$$\sim 0.1 \times 100 - 100$$

15b. $V = \frac{V}{100} + 100$
15b. $V = \frac{V}{100} + 100$
15b. $V = \frac{V}{100} + 100$
15b. $V = \frac{V}{100} + \frac{V}{100} +$

18.
$$\frac{9x^{2} - 1}{3x^{2} + 2x - 1} = \frac{3x \cdot 1}{x - 2}$$

$$\frac{\beta x + 1)(3x - 1)}{(3x - 1)(x + 1)} \times \frac{x - 2}{3x + 1}$$

$$\frac{x - 2}{x + 1}$$
19. interval: even & bars (1:111e Imm squares)
6 - 10 / 60
10 - 12 80
12 - 14 110
14 - 15 115
15 - 16 95
16 - 20 40
500 Imm squares = 500 mile
50 each Imm square represents I mouse
60 squares for 6 - 10
- 60 mile less then 10g

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