AQA, OCR, Edexcel

GCSE

GCSE Maths

Model Solutions for AQA Paper 1 June 2013

Name:



Mathsmadeeasy.co.uk

Total Marks:

3.

ha.

46.

lic.

 $\frac{1}{n} = 0.1$, n-1 = q, n+1 = 11 $n^2 = 100$ $\sqrt{n} = \sqrt{10}$

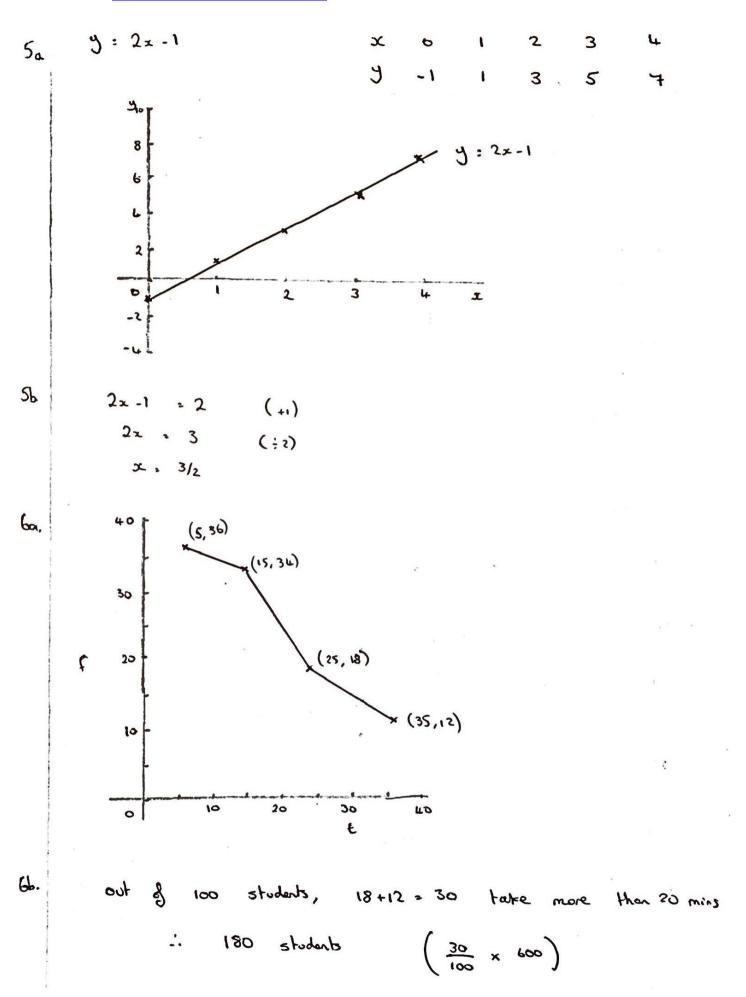
median so order: 0.1, 1/10, 9, 11, 100

is the median

19 = even

3(p+q) = 3 x odd = odd

P/q = either



7. no. of houses no. of people 2 8 3 3 9 4 La 5 5 8 + 9 + 4a +5 SO 22 + 4a (-22) (; u) 84. 3x-15 = 3(x-5) .18 5(y+46-2) : 5y + 206 - 10 82. 3(6+2) = 26-1 36+6 (-26) (-6) 9. 0 @ 3 W (:3) 7 + 100

Visit http://www.mathsmadeeasy.co.uk/ for more fantastic resources.

10.

X 7, 2

x s y

11.

3t : 45 : 5p

so 3+4+5 = 12 bits

12 - 4 so each bit worth Le

T s p

12 16 20

: P area 20 cm

12.

2a + 2c = 5a - 5b (-2a)

2c = 3a - 5b (:s)

c: 1/2 (3a-5b)

13a,

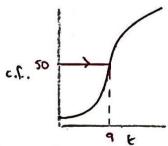
c.f. 80

100 -80 . 20

50 20 6

customers wanted larger than 15 mins

13b.



median : 50th value

so 9 minutes

IVIGUIS IVIGUE EGSV & COMBRETE TURINOM ETA 2017

3. IQR : UQ - LQ : 11 - 3 = 8 131 Waiting times decreased after the new window since median is lower. Spread of waiting times decreased after new window lla. ABC , 900 x: 180-90 -55 : 35° 14 y = 100°, angle at centre in twice the angle . at the circumference 150 (3x+2)(2x+5) : 6x + 15x + 6x +10 . 6x + 19x + 10 (3x2y4)2 , 9x4y8 156. 16. Area of square . 2r × 2r = 42r Area of evide . TTE 4 Area of square , & x 41° , 31° . , more than 3 of the area taken up

$$\frac{n(n-1)}{2} + \frac{n(n+1)}{2}$$

$$\frac{n(n-1) + n(n+1)}{2}$$

$$= \frac{n^2 - n + n^2 + n}{2}$$

$$= \frac{2n^2}{2}$$

$$= n^2$$

$$(x^2 + 2x - 3) - (x^2 + x - 3)$$

$$y = x$$

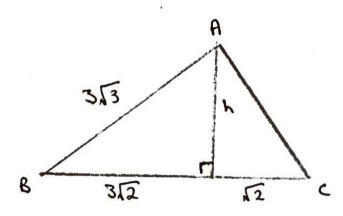
$$y = x$$

$$y = x$$

$$y = x$$

19

196



Pythag.
$$(3\sqrt{3})^2 = h^2 + (3\sqrt{2})^2$$
 $27 = h^2 + 18$
 $h^2 = 9$
 $h = 3$

Area of $\Delta : \frac{1}{2}(b \times h)$
 $b = 3\sqrt{2} + \sqrt{2}$
 $4\sqrt{2}$

Area = $\frac{1}{2}(4\sqrt{2} \times 3)$
 $= \frac{1}{2} \times 12\sqrt{2}$

= 6/2