AQA, OCR, Edexcel

GCSE

GCSE Maths

Edexcel November 14 Paper 1

Name:



Mathsmadeeasy.co.uk

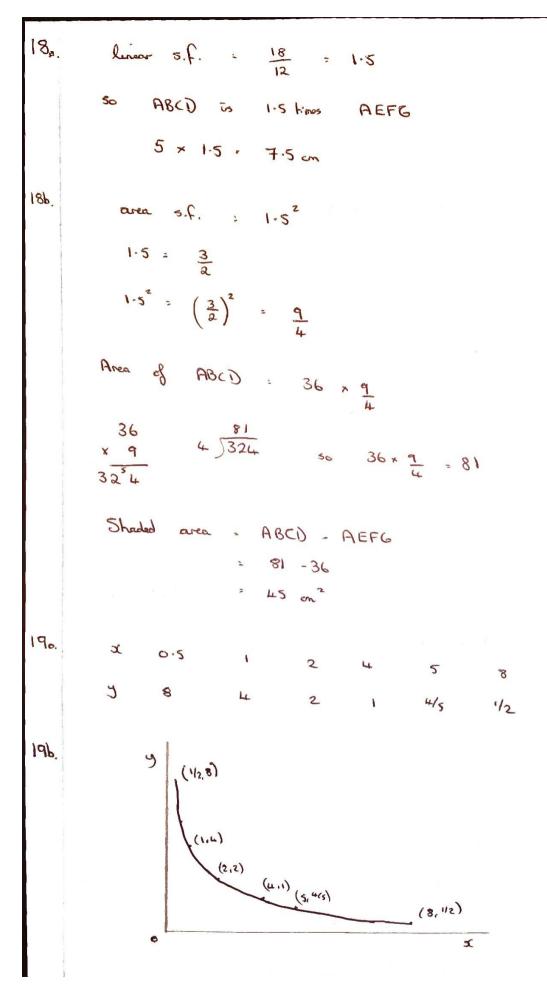
Total Marks:

	Edexcel Nov 14 Paper 1
15.	3484
l _{ii} ,	34.84
lm.	670
2.	Maths: $\frac{32}{80} = \frac{4}{10} = 40\%$
	English: 38%
	40% > 30% is she did better in moths
3,	8 4 8 9
	9 001123578
	11 05 key 8/4 = 84 cm
4.	T= 6x + 8y
5a.	69 +5 > 8 (-5)
	63 > 3 (46)
The security of the security o	J > 1/2
5b.	-3<× < 4

```
6.
          554
                 50 ES.SL x 27 : £149.58
      £ 149.58 < £150 so Steve has enough money to buy the plants
7.
                     15m
          8m
                     A
       Area & A; 8 x 15 = 120 m2
       Area & B: 3 x (15-x) = (45-3x)m2
      Total Area: 138m2
           120 + 45 - 3x = 138
                165 - 3x , 138
                                 (-138)
                     3x : 27
                      a, gm
     BFG: 65° (atternate angles equal)
8.
     FBG = 65° (base angles of isosceles trangle equal)
    FGB: 180-65-65, 50° (argles in traigle sun to 180°)
     x : 180-50 = 130° (angles or straight line sum to 180°)
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90	Answer boxes not exhaustine (no 7+)
	No units of distance e.g. miles
96.	never 1-2 3-4 5-6 7+
10.	
	A
11.	10% & 7000 : 700 20% & 7000 : 1400
	50 total cost = £7000 + £1400 : £8400
	£8400 - £3000 = £5400 (after £3000 deposit)
	£ suco ? 6 : 6 5 400
	= £900 per month

14. L500 = 75 = 6 150. range: 230 220 156. The median time of the boys is higher, meaning on average they spend more time on homework. The spread of girls times is greater as they have a higher 160 Plot (20,25) (30,70) (60,138) (50,175) (60,186) (70,194) (80,200) 16b. people were older than 65.



17

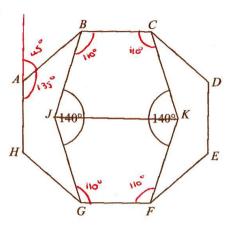


Diagram NOT accurately drawn

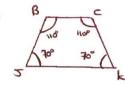
ABCDEFGH is a regular octagon. BCKFGJ is a hexagon.

JK is a line of symmetry of the hexagon. Angle BJG = angle CKF = 140°

Work out the size of angle *KFE*. You must show all your working.

Exterior angle of octogon: 360, 45°

Interior angle, 180-45 = 135°



Quadrilateral : sums to 360°

360 - 70 - 70 : 220

2 = 110° = B and C = G and F

KFE: Interior angle - KFC

- 05°

25

(Total for Question 17 is 4 marks)

18

20 & Sphere = LTTE SA SA of hemisphere = 2 TT = 2 112 = 32 11 (= 21) r2 = 16 r : 4 SA of cylinder = Circumference x length + base Total 5A of shape " 811 × 10 + 1611 + 3211 8011 + 4811 12817 21. (1+52)(3-52) - 3-12+312-2 1+252 220. (3e)° = 1 $\left(\frac{64x^{6}}{25y^{2}}\right)^{-\frac{1}{2}} = \left(\frac{25y^{2}}{64x^{6}}\right)^{1/2} = \frac{\sqrt{25y^{2}}}{\sqrt{64x^{6}}} = \frac{5y}{8x^{3}}$ 226. 22c $\frac{5}{x-3} - \frac{4}{x+3}$ $\frac{5(x+3) - 4(x-3)}{(x-3)(x+3)} : \frac{5x+15^{\circ} - 4x+12}{(x-3)(x+3)}$

23

2 3 3 4 5 5 5 5

Ways of getting on odd:

$$\frac{120}{336} + \frac{12}{336} + \frac{2}{56} + \frac{12}{336}$$

*
$$\frac{120}{336}$$
 + $\frac{12}{336}$ + $\frac{12}{336}$ + $\frac{12}{336}$

$$\frac{156}{336} \qquad \qquad (\frac{13}{28})$$

24,	A (1,3) B (4,-1)
	2y = 3x - 4
	$y = \frac{3}{2}x - 4$ grad = $\frac{3}{2}$
	grad of AB = $y_1 - y_2$
	$x'-x^{5}$
	3-(-1)
	= 4-3
	if he good of line x groud of AB = -1
	$\frac{3}{2} \times -\frac{4}{3} = -2 \neq -1$
	ines not perpendicular
251.	$f(x) \rightarrow f(x) + 3$ translator 3μ - (3,-1)
25x.	$f(x) \rightarrow f(2x)$ stretch s.f. 1/2 in x : (1.5, _4)
25c.	$f(+x) \rightarrow f(-x)$ Stretch s.f1 in x (-3-11)
	or reflection in y arms