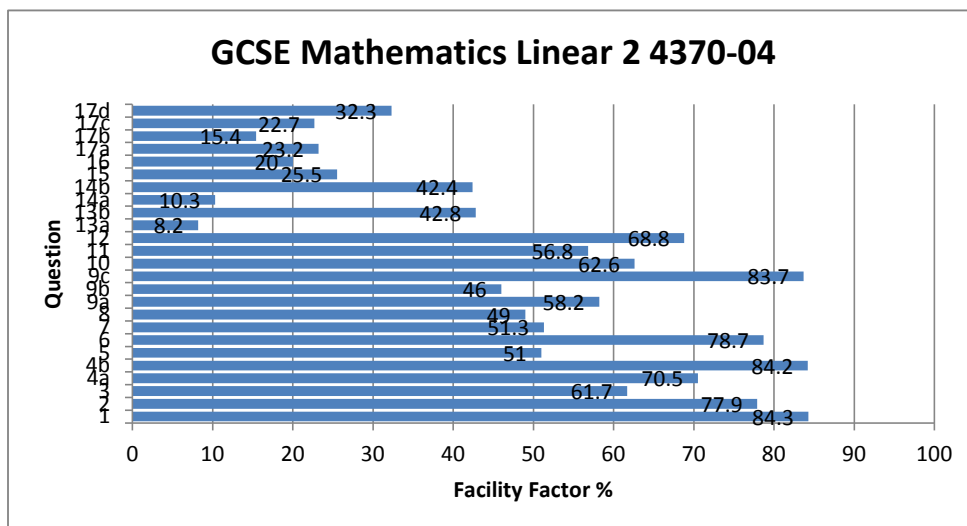


GCSE Mathematics Linear 2 4370-04

All Candidates' performance across questions

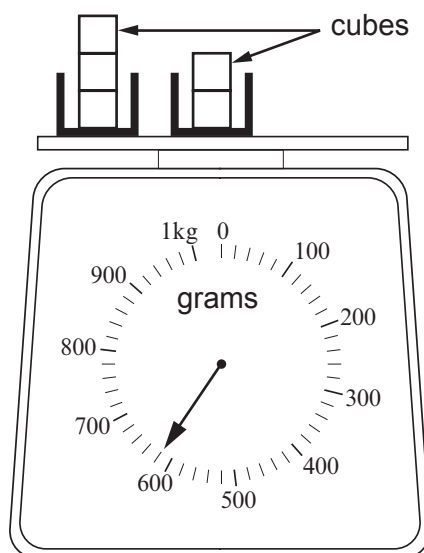
Question Title	N	Mean	S D	Max Mark	FF	Attempt %
1	19206	5.1	1.3	6	84.3	99.6
2	19158	3.1	0.9	4	77.9	99.4
3	19204	4.3	2.3	7	61.7	99.6
4a	18888	2.1	0.9	3	70.5	98
4b	18676	1.7	0.6	2	84.2	96.9
5	18885	2	1.3	4	51	97.9
6	19239	3.9	1	5	78.7	99.8
7	19189	2.6	1.6	5	51.3	99.5
8	18627	3.9	2.5	8	49	96.6
9a	19088	1.2	0.5	2	58.2	99
9b	17113	1.4	0.9	3	46	88.8
9c	18092	1.7	0.6	2	83.7	93.8
10	18319	3.8	2.3	6	62.6	95
11	17942	3.4	2	6	56.8	93
12	18270	2.8	1.4	4	68.8	94.8
13a	17436	0.2	0.7	3	8.2	90.4
13b	14988	0.9	1	2	42.8	77.7
14a	18310	0.2	0.5	2	10.3	95
14b	16166	1.3	1.1	3	42.4	83.8
15	15852	1	1.2	4	25.5	82.2
16	16146	1.2	1.4	6	20	83.7
17a	16262	0.2	0.4	1	23.2	84.3
17b	12688	0.6	1.2	4	15.4	65.8
17c	12964	0.9	1.3	4	22.7	67.2
17d	16628	1.3	1.3	4	32.3	86.2



3. (b) *You will be assessed on the quality of your written communication in this part of the question.*

Five identical cubes are now placed as shown.
Find how much one cube weighs.

[5]



.....

.....

.....

.....

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3. b

$$620 - 320 = 300$$

$$\text{cubes} = 300g$$

$$300 \div 5 \text{ cubes} = 60g$$

each cube is 60g

3. b

$$620 - 320 = 300$$

$$\text{cubes} = 300g$$

$$300 \div 5 \text{ cubes} = 60g$$

each cube is 60g



10. The ages (in years) of the 8 members of an evening class are as follows:

36 28 45 24 31 34 27 47

(a) (i) Find the range of the ages of the members of the class. [1]

.....

.....

(ii) What was the range of their ages one year ago?
Give a reason for your answer. [2]

.....

.....

.....

.....

(b) Find the mean age of the members of the class. [3]

.....

.....

.....

.....

.....



10. a

- (ii) What was the range of their ages one year ago?
Give a reason for your answer.

[2]

The range would be the same because they'd only be a year younger and there would still be 23 years between them.

10. a

- (ii) What was the range of their ages one year ago?
Give a reason for your answer.

$$\begin{array}{l} 47 - 1 = 46 \\ 24 - 1 = 23 \end{array} \quad 46 - 23 = 23$$

10. a

- (ii) What was the range of their ages one year ago?
Give a reason for your answer.

[2]

The range would be the same because they'd only be a year younger and there would still be 23 years between them.



10. a

- (ii) What was the range of their ages one year ago?
Give a reason for your answer.

$$\begin{array}{l} 47 - 1 = 46 \\ 24 - 1 = 23 \end{array} \quad 46 - 23 = 23$$



10.

(b) Find the mean age of the members of the class.

[3]

$$36 + 28 + 45 + 24 + 31 + 34 + 27 + 47$$

$$= 272$$

$$272 \div 8$$

$$= 35$$

$$\text{mean} = 35$$

$$36 + 28 + 45 + 24 + 31 + 34 + 27 + 47 \div 8 = 34$$

10.

(b) Find the mean age of the members of the class.


[3]

$$24 + 27 + 28 + 31 + 34 + 36 + 45 + 47 = 272$$


$$272 \div 8 = 34 \text{ years old}$$

10.

(b) Find the mean age of the members of the class. [3]

$$36 + 28 + 45 + 24 + 31 + 34 + 27 + 47$$
$$= 272$$
$$272 \div 8$$
$$= 35 \quad \text{mean} = 35$$





$$36 + 28 + 45 + 24 + 31 + 34 + 27 + 47$$
$$= 272$$
$$272 \div 8 = 34$$




10.

(b) Find the mean age of the members of the class. [3]

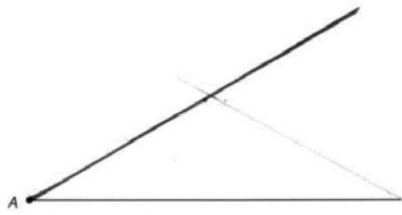
$$24 + 27 + 28 + 31 + 34 + 36 + 45 + 47 = 272$$
$$272 \div 8 = 34 \text{ years old}$$




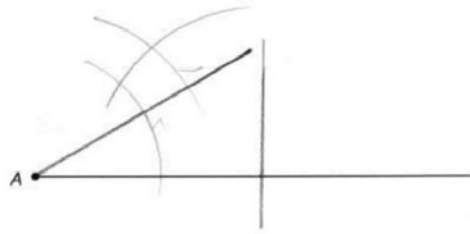
13. (a) Using a ruler and a pair of compasses, construct an angle of 30° at the point A on the line below. [3]



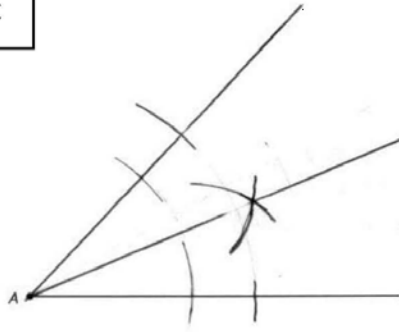
13a Candidate A



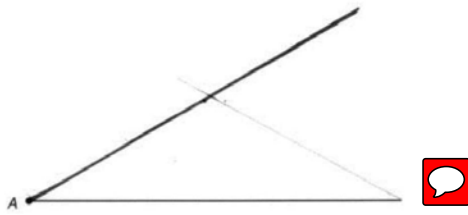
13a Candidate B



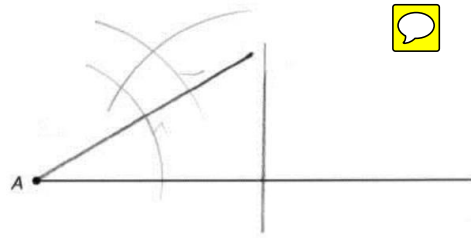
13a Candidate C



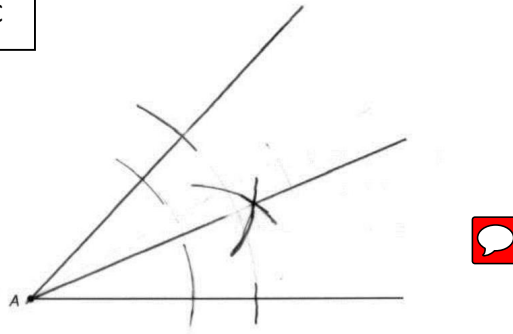
13a Candidate A



13a Candidate B

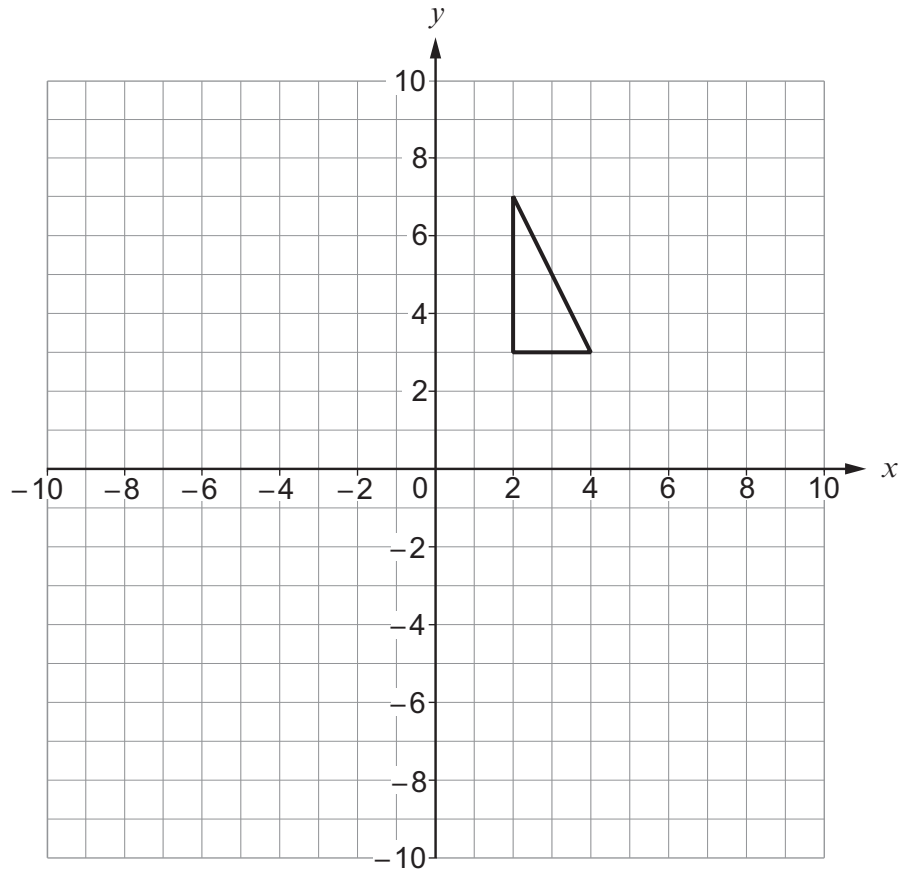


13a Candidate C



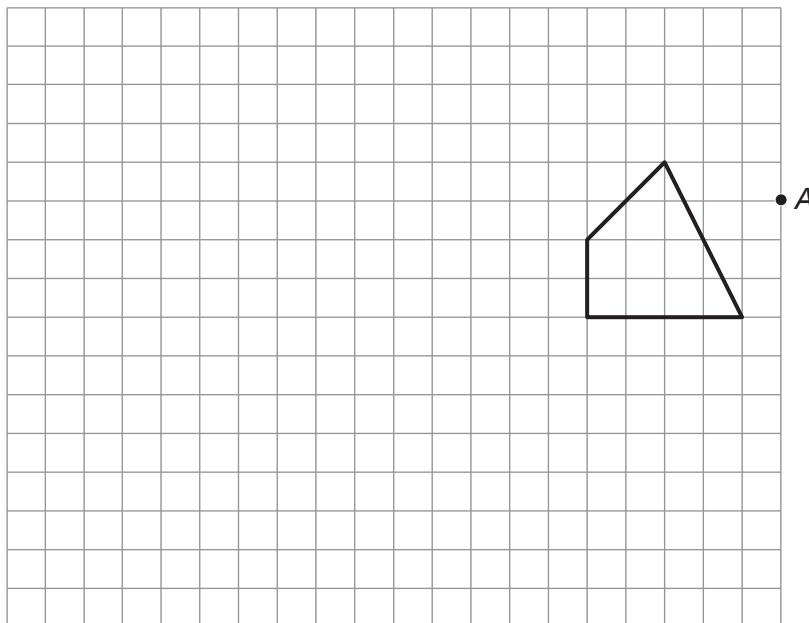
14. (a) Draw a reflection of the triangle in the line $y = 1$.

[2]



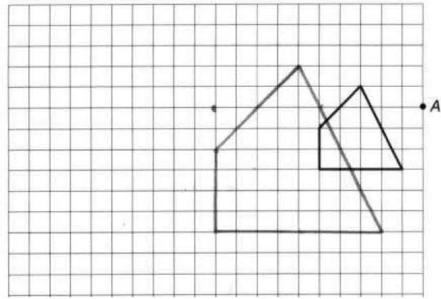
- (b) Enlarge the shape shown on the grid by a scale factor of 2, using A as the centre of the enlargement.

[3]

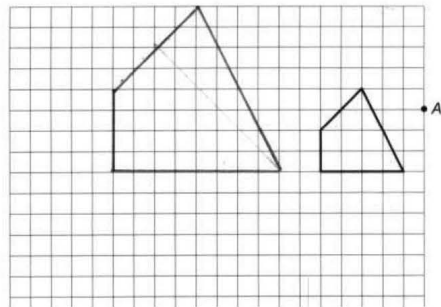


14.

- (b) Enlarge the shape shown on the grid by a scale factor of 2, using A as the centre of the enlargement. [3]

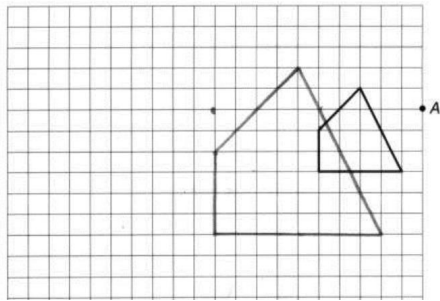


- (b) Enlarge the shape shown on the grid by a scale factor of 2, using A as the centre of the enlargement. [3]

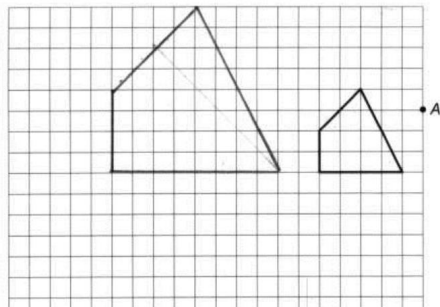


14.

- (b) Enlarge the shape shown on the grid by a scale factor of 2, using A as the centre of the enlargement. [3]



- (b) Enlarge the shape shown on the grid by a scale factor of 2, using A as the centre of the enlargement. [3]



UK Income Tax

$$\text{taxable income} = \text{gross income} - \text{personal allowance}$$

- [6]



16.

Candidate A

$$\begin{aligned}52,250 - 9205 &= 43045 \\20\% \text{ of } 32253 &= 6451 \\43045 - 6451 &= 10790 \\40\% \text{ of } 10790 &= 4316 \\4316 + 6451 &= 10767 \\ \text{Claudia should pay } &\underline{\pounds 10767}\end{aligned}$$

Candidate B

Calculate the total amount of tax that Claudia should pay.
You must show all your working. [6]

$$\begin{aligned}52250 - 9205 &= 43045 \\43045 - 32255 &= 10790 \\20\% &= 6451 \\40\% &= 6,17218 \\ \text{Claudia should pay } &\pounds 17218\end{aligned}$$

16.

Candidate A

$52,250 - 9205 = 43045$

$20\% \text{ of } 43045 = 8609$

$43045 + 8609 = 51654$

$40\% \text{ of } 51654 = 20661$

$8609 + 20661 = 29270$

Claudia should pay £29270

Candidate B

Calculate the total amount of tax that Claudia should pay.
You must show all your working. [6]

$52250 - 9205 = 43045$

$43045 - 32255 = 10790$

$20\% = 2158$

$40\% = 4316$

Claudia should pay £17218