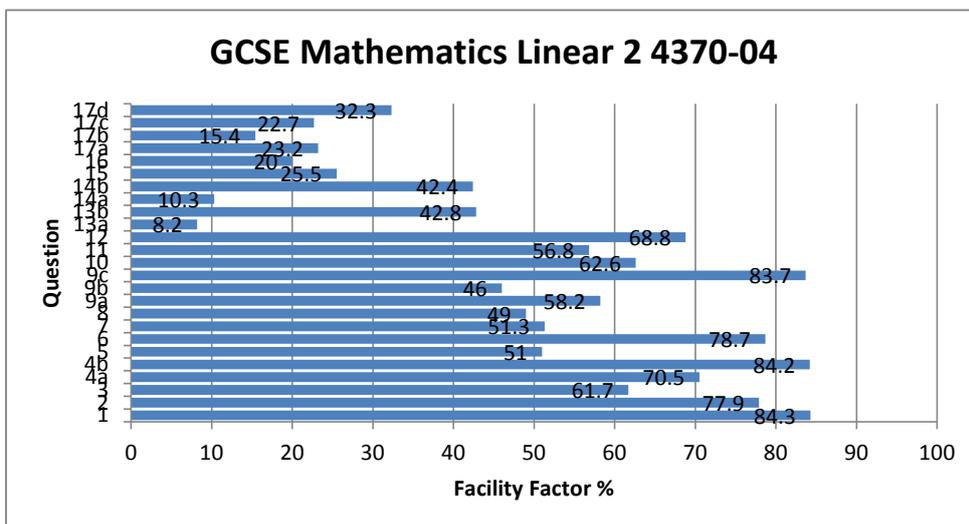


GCSE Mathematics Linear 2 4370-04

All Candidates' performance across questions

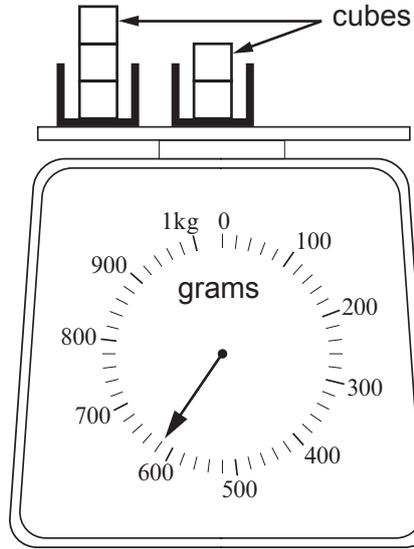
Question Title	N	Mean	SD	Max Mark	FF	Attempt %
1	19206	5.1	1.3	6	84.3	99.6
2	19158	3.1	0.9	4	77.9	99.4
3	19204	4.3	2.3	7	61.7	99.6
4a	18888	2.1	0.9	3	70.5	98
4b	18676	1.7	0.6	2	84.2	96.9
5	18885	2	1.3	4	51	97.9
6	19239	3.9	1	5	78.7	99.8
7	19189	2.6	1.6	5	51.3	99.5
8	18627	3.9	2.5	8	49	96.6
9a	19088	1.2	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.

$$47 - 1 = 46 \quad 46 - 23 = 23$$
$$24 - 1 = 23$$

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]

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

$$= 272$$

$$272 \div 8$$

$$= 35$$

$$\text{mean} = 35$$



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



10.

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

[3]

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

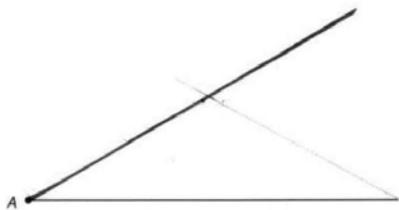
$$272 \div 8 = 34 \text{ years old}$$



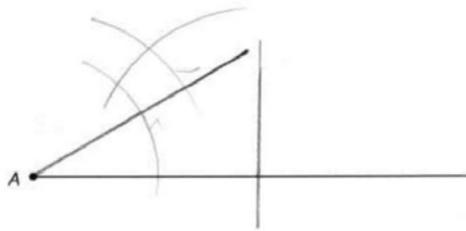
13. (a) Using a ruler and a pair of compasses, construct an angle of 30° at the point A on the line below. [3]



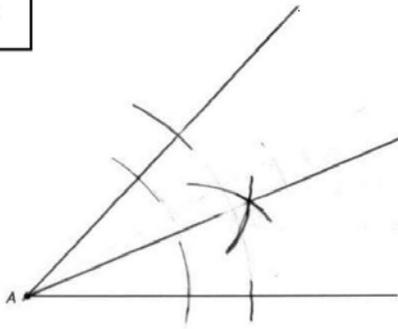
13a Candidate A



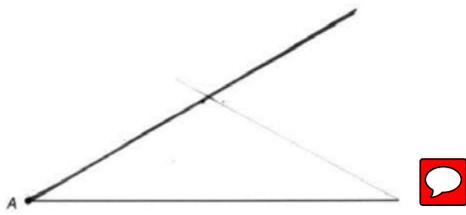
13a Candidate B



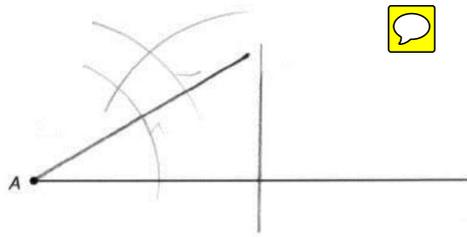
13a Candidate C



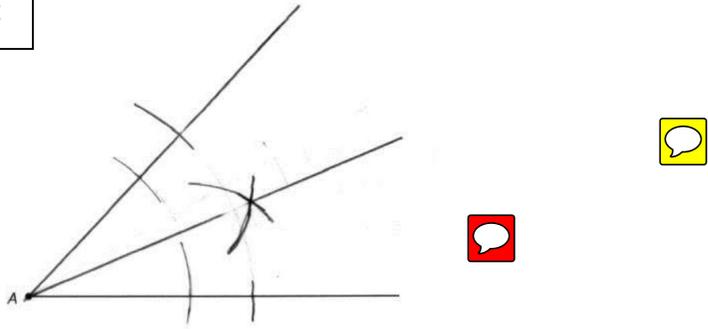
13a Candidate A



13a Candidate B

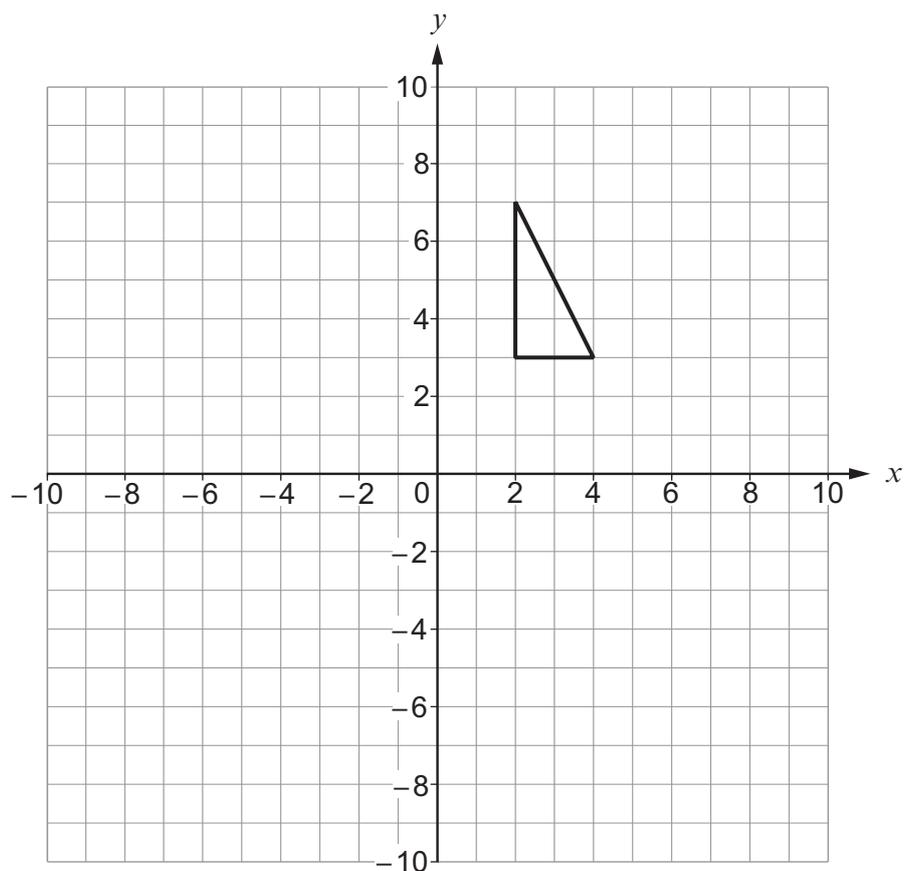


13a Candidate C



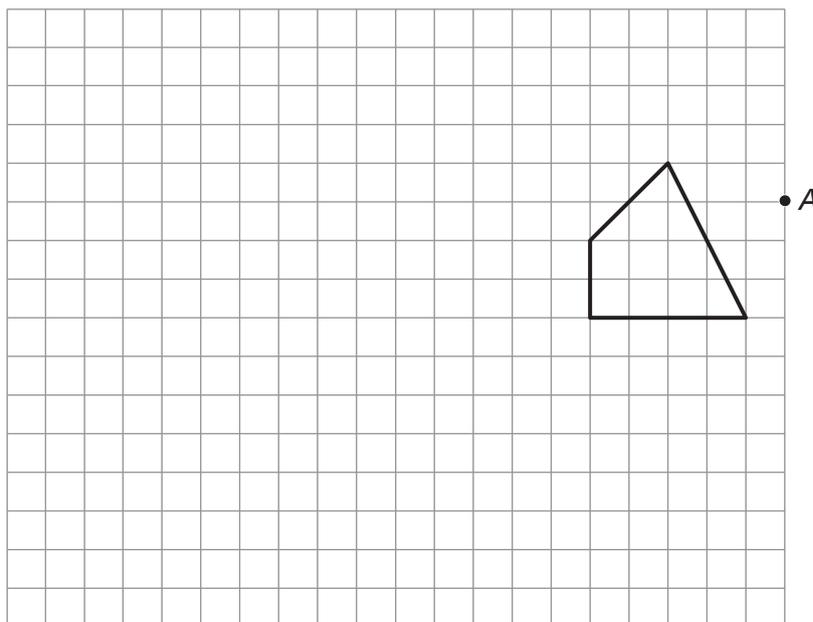
14. (a) Draw a reflection of the triangle in the line $y = 1$.

[2]



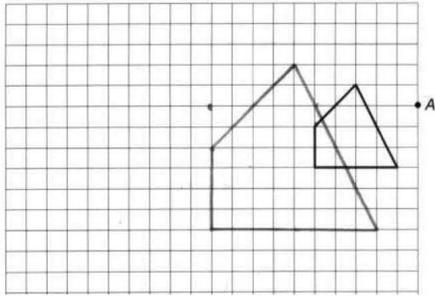
- (b) Enlarge the shape shown on the grid by a scale factor of 2, using A as the centre of the enlargement.

[3]

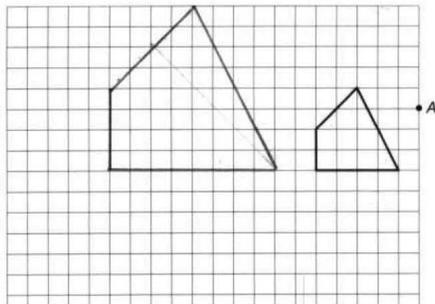


14.

(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]

The diagram shows a 10x10 grid. A shape is drawn with vertices at (4,4), (4,6), (6,6), (6,8), (8,8), (8,4), and (4,4). A point A is marked at (8,6). A smaller version of the shape is drawn with vertices at (6,6), (6,8), (8,8), (8,6), and (6,6). A yellow speech bubble icon is to the right of the grid, and a red speech bubble icon is in the bottom right corner.

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

The diagram shows a 10x10 grid. A shape is drawn with vertices at (4,4), (4,6), (6,6), (6,8), (8,8), (8,4), and (4,4). A point A is marked at (8,6). A smaller version of the shape is drawn with vertices at (6,6), (6,8), (8,8), (8,6), and (6,6). A yellow speech bubble icon is to the right of the grid, and a red speech bubble icon is in the bottom right corner.

16.

Candidate A

$$52,250 - 9205 = 43045$$
$$20\% \text{ of } 43045 = 8609$$
$$43045 - 8609 = 34436$$
$$40\% \text{ of } 34436 = 13774$$
$$\begin{array}{r} 8609 \\ + 13774 \\ \hline 22383 \end{array}$$

Claudia should pay £22383

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

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