

Mark Scheme (Results)

November 2012

GCSE Mathematics (Linear) 1MA0 Foundation (Calculator) Paper 2F

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#### **NOTES ON MARKING PRINCIPLES**

- 1 All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- 2 Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- 4 Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- **5** Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.
- 6 Mark schemes will indicate within the table where, and which strands of QWC, are being assessed. The strands are as follows:
  - i) ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear Comprehension and meaning is clear by using correct notation and labeling conventions.
  - ii) select and use a form and style of writing appropriate to purpose and to complex subject matter

    Reasoning, explanation or argument is correct and appropriately structured to convey mathematical reasoning.
  - iii) organise information clearly and coherently, using specialist vocabulary when appropriate.

    The mathematical methods and processes used are coherently and clearly organised and the appropriate mathematical vocabulary used.

# 7 With working

If there is a wrong answer indicated on the answer line always check the working in the body of the script (and on any diagrams), and award any marks appropriate from the mark scheme.

If working is crossed out and still legible, then it should be given any appropriate marks, as long as it has not been replaced by alternative work.

If it is clear from the working that the "correct" answer has been obtained from incorrect working, award 0 marks. Send the response to review, and discuss each of these situations with your Team Leader.

If there is no answer on the answer line then check the working for an obvious answer.

Any case of suspected misread loses A (and B) marks on that part, but can gain the M marks. Discuss each of these situations with your Team Leader.

If there is a choice of methods shown, then no marks should be awarded, unless the answer on the answer line makes clear the method that has been used.

# 8 Follow through marks

Follow through marks which involve a single stage calculation can be awarded without working since you can check the answer yourself, but if ambiguous do not award.

Follow through marks which involve more than one stage of calculation can only be awarded on sight of the relevant working, even if it appears obvious that there is only one way you could get the answer given.

# 9 Ignoring subsequent work

It is appropriate to ignore subsequent work when the additional work does not change the answer in a way that is inappropriate for the question: e.g. incorrect canceling of a fraction that would otherwise be correct

It is not appropriate to ignore subsequent work when the additional work essentially makes the answer incorrect e.g. algebra.

Transcription errors occur when candidates present a correct answer in working, and write it incorrectly on the answer line; mark the correct answer.

### 10 Probability

Probability answers must be given a fractions, percentages or decimals. If a candidate gives a decimal equivalent to a probability, this should be written to at least 2 decimal places (unless tenths).

Incorrect notation should lose the accuracy marks, but be awarded any implied method marks.

If a probability answer is given on the answer line using both incorrect and correct notation, award the marks.

If a probability fraction is given then cancelled incorrectly, ignore the incorrectly cancelled answer.

# 11 Linear equations

Full marks can be gained if the solution alone is given on the answer line, or otherwise unambiguously indicated in working (without contradiction elsewhere). Where the correct solution only is shown substituted, but not identified as the solution, the accuracy mark is lost but any method marks can be awarded.

### 12 Parts of questions

Unless allowed by the mark scheme, the marks allocated to one part of the question CANNOT be awarded in another.

# 13 Range of answers

Unless otherwise stated, when an answer is given as a range (e.g 3.5 - 4.2) then this is inclusive of the end points (e.g 3.5, 4.2) and includes all numbers within the range (e.g 4, 4.1)

## Guidance on the use of codes within this mark scheme

M1 – method mark

A1 – accuracy mark

B1 – Working mark

C1 – communication mark

QWC – quality of written communication

oe – or equivalent

cao - correct answer only

ft – follow through

sc – special case

dep - dependent (on a previous mark or conclusion)

indep – independent

isw – ignore subsequent working

1MA	1MA0_2F						
Qu	estion	Working		Answer	Mark	Notes	
1	(a)				3600	1	B1 for 3600
	(b)				1.8	1	B1 for 1.8
	(c)				3.6 shown	1	B1 for 3.6 marked on number line
2	(a)				Correct tally	2	M1 for at least 2 tallies or frequencies correct
		Fruit	Tally	Freq			A1 for 4 correct frequencies
		Currant		5			
		Prune	<del>    </del>	5			
		Raisin	<del>    </del>	6			
		Sultana	<del>    </del>	8			

1MA	1MA0_2F								
Qu	estion	Working	Answer	Mark	Notes				
2	(b)	Angles: Currants (75°) Prunes (75°) Raisins (90°) Sultanas (120°)	Diagram drawn	3	M1 for bar chart or other suitable chart with at least 2 correct heights for their scale or ft from (a) M1 for all bars correctly labelled and vertical axis correctly scaled A1 for fully correct bar chart or ft from (a)  OR M1 for pictogram, at least 2 correct rows or ft from (a) M1 for correct labels on all rows and key A1 for fully correct pictogram or ft from (a)  OR M1 for stick graph with at least 2 sticks of correct height for their scale or ft from (a) M1 for all sticks correctly labelled and vertical axis correctly scaled A1 for fully correct stick graph or ft from (a)  OR M1 for pie chart with at least 2 correct sectors (±2°) or 2 angles correctly calculated or ft from (a) M1(dep) for all sectors correctly labelled A1 for fully correct pie chart or ft from (a)				

1MA	1MA0_2F								
Qu	estion	Working	Answer Mark		Notes				
3	(a)		16 or 4	1	B1 for 4 or 16 (or both)				
	(b)		21	1	B1 cao				
	(c)		10 or 15	1	B1 10 or 15 (or both)				
4	(a)		32 and 10	2	B1 for 32 in the correct place B1 for 10 in the correct place				
	(b)	$10 \times 3 \times 2 = 60 \text{ or} 10 \times 3 + 30 = 60$	×2 or +30	1	B1 for ×2 or +30				
5		$180 \times \frac{10}{100} = 18$ or $\frac{20}{180} \times 100 = 11.1$	No	3	M1 for $180 \times \frac{10}{100}$ oe or $180 \times 1.1$ oe  or $\frac{20}{180} \times 100$ (= 11.1) oe  A1 for (£)18 or (£)198 or 11%  C1 (dep M1) for comparison of increases or total pay or percentage increases leading to a correct deduction				

1MA	0_2F				
Qu	estion	Working	g Answer Mark		Notes
6	(a)		No + reason	1	B1 for No because she has 1 choice out of 3 which is the same as Mike oe
	(b)	(r,g)(r,b)(g,b)(g,r)(b,g)(b,r) (r,r)(b,b)(g,g)	Complete list	2	M1 for listing pairs (at least 5 correct pairs) A1 for fully correct list (ignore repeats)
	(c)		$\frac{1}{9}$	1	B1 for $\frac{1}{9}$ oe
					(If M1A0 in (b), then SC B1 in (c) for their number of (b,g) their total number of outcomes
7	(a)	3 4 4 5 5 6 8 9 10	5	2	M1 for ordering the 9 numbers A1 cao
	(b)	$(4+8+5+9+10+5+6+3+4)\div 9$ 54 ÷ 9	6	2	M1 for $(4+8+5+9+10+5+6+3+4) \div 9$ or $54 \div 9$ A1 cao
8	(a)		10	1	B1 cao
	(b)		6	1	B1 cao
	(c)		Correct image	2	B2 cao (B1 for reflection in a line parallel to the given line)
9		$20 \times 20 \times 40 = 16000$	16000 cm <sup>3</sup>	3	M1 for $20 \times 20 \times 40$ or $0.2 \times 0.2 \times 0.4$
					A1 for for 16 000 or 0.016 B1 for cm <sup>3</sup> or m <sup>3</sup> (consistent with working)

1MA	0_2F				
Qu	estion	Working	Answer	Mark	Notes
10	(a)	30 + 8×4	62	2	M1 for 30 + 8×4 or attempt to add four 8s to 30 (allow one error in addition) A1 cao
	(b)	$110 - 30 = 80$ $80 \div 8 = 10$	10	3	M1 for 110 – 30 (=80) M1 (dep) for '80' ÷ 8 or A1 cao
		OR			OR
		110 - 62 = 48			M1 for 110 – 62 (= 48)
		$48 \div 8 = 6$			M1(dep) for '48' $\div$ 8 = 6
		4 + 6 = 10			A1 cao
11	(a)		cm	2	B1 for centimetres or cm or millimetres or mm
			gallons		B1 for gallons (accept pints)
	(b)(i)		4000	2	B1 cao
	(ii)		3.5		B1 for 3.5 oe
12		3 ×9.58 + 12.61 + 7.06 + 4.41 (= 52.82)	Yes + working	4	M2 for 3 ×9.58 (=28.74) + 12.61 + 7.06 + 4.41 or 55 - 3 ×9.58 (=28.74) - 12.61 - 7.06 - 4.41 (M1 for at least 2 correct costs seen) A1 for 52.82 or 2.18 C1 (dep M1) for comparison and correct deduction using their total cost or amount left

1MA	0_2F				
Qu	estion	Working	Answer	Mark	Notes
13	(a)		A and C	1	B1 for A and C (no extras)
	(b)		B or E	1	B1 for B or E (or both) (no extras)
	(c)		2	1	B1 cao
14		$3 \times 4 = 12$ $12 \text{ m}^2 = 120000 \text{ cm}^2$ $20 \times 20 = 400$ $120000 \div 400 = 300$ $300 \div 10 = 30$ OR $3m = 300\text{cm}, 4 \text{ m} = 400\text{cm}$ $300 \div 20 = 15, 400 \div 20 = 20$ $15 \times 20 = 300$ $300 \div 10 = 30$ $30 \times 34.99 = 1049.70$	No with working	6	B1 for a correct conversion of 3 m or 4 m to cm or 20 cm to m or a correct and appropriate area conversion.  M1 for 300 × 400 (=120000) or 3 ×4 (=12)  M1 for 20 × 20 or 0.20 × 0.20  M1 for '120000'÷ '400' or '12' ÷ '0.04'  A1 for 1049.7(0)  C1 (dep M1) for comparison and correct deduction using their total cost with supportive working  OR  B1 for a correct conversion of 3 m or 4 m to cm or 20 cm to m or a correct and appropriate area conversion.  M1 for 300 ÷ 20 or 400 ÷ 20 or 3 ÷ 0.2(0) or 4 ÷ 0.2(0)  M1 for 300 ÷ 20 and 400 ÷ 20 or 3 ÷ 0.2(0) and 4 ÷ 0.2(0)  M1 for '15' × '20'  A1 for 1049.7(0)  C1 (dep M1) for comparison and correct deduction using their total cost with supportive working

1MA	1MA0_2F							
Qu	estion	Working	Answer	Mark	Notes			
15	(a)		Correct net	1	B1 for correct net			
	(b)	Shade two faces. For each correct net there are 3 different possibilities	Correct shading	1	B1 for shading 2 opposite faces			
	(c)		12	1	B1 cao			
16		Paint R Us 6 × 2.19 (= 13.14) Deco Mart 9× 1.80 (= 16.20) 16.20 × 0.9 (= 14.58)	Paint R Us	6	Paint R Us M1 for '9 - 3' × 2.19 A1 for 13.14 Deco Mart M2 for $\frac{90}{100}$ × '16.20' oe  (M1 for $\frac{10}{100}$ × '16.20' oe ) A1 for 14.58 C1 (dep M1) for comparison of cost of 9 tins at Paint R Us with cost of 9 tins at Deco Mart leading to a correct deduction			

1MA0_2F						
Question		Working		Answer	Mark	Notes
17				Correct pie chart	3	M1 for any one of $\frac{15}{'72'} \times 360$ , $\frac{10}{'72'} \times 360$ ,
	Bird	Frequency	Angles			With for any one of $\frac{1}{72!} \times 300$ , $\frac{1}{72!} \times 300$ ,
	Magpie	15	75			20 27 260 27
	Thrush	10	50			$\frac{20}{72'} \times 360, \frac{27}{72'} \times 360$ oe
	Starling	20	100			('72' must clearly come from adding frequencies)
	Sparrow	27	135			A1 for 75 seen from correct working or 50 seen <b>or</b>
	Angles $\frac{15}{72} \times 360$ , $\frac{10}{72} \times 360$ , $\frac{20}{72} \times 360$ ,				100 seen <b>or</b> 135 seen <b>or</b> one sector of angle 50° or 100° or 135° labelled	
	Aligies ${72} \times 30$	$\frac{70}{72} \times 300, \frac{7}{7}$	$\frac{-}{2}$ × 300,			correctly with bird's name or
	27					all sectors correctly drawn
	$\frac{27}{72} \times 360$					A1 for correct pie chart fully labelled with birds'
	, -					names
	OR					OR
	$\boxed{\frac{75}{15} \times 10, \frac{75}{15}}$	$\times 20,  \frac{75}{15} \times 27$				M1 for $\frac{'75'}{15} \times 10$ or $\frac{'75'}{15} \times 20$ or $\frac{'75'}{15} \times 27$
						('75' must be in the range 73 - 77)
						A1 for 50 seen <b>or</b> 100 seen <b>or</b> 135 seen <b>or</b>
						one sector of angle 50° or 100° or 135° labelled correctly with bird's name <b>or</b>
						all sectors correctly drawn
						A1 for correct pie chart fully labelled with birds'
						names
						NB. Allow a tolerance of ±2° on all drawn angles

1MA	.0_2F				
Qu	estion	Working	Answer	Mark	Notes
18	(a)	$y = 4 \times 7.5 + 5.4$	35.4	2	M1 for 4 ×7.5 + 5.4 A1 cao
	(b)	$18.8 = 4x - 2.4$ $x = \frac{18.8 + 2.4}{4}$	5.3	2	M1 for intention to add 2.4 to 18.8 or to subtract -2.4 from 18.8 or to divide 18.8 and (-)2.4 by 4 A1 cao
19		$180 \div 30 = 6$ $9 + 6 + 0.5 + 0.5 = 16$	16:00 or 4pm	3	M1 for 180÷30 (= 6) or 30 + 30 +to a total of between 150 and 210 exclusive M1 for 9 + '6' + 0.5 + 0.5 A1 for 16:00 or 4pm (accept 4 o'clock)  OR  M1 for 60 bricks used or 120 bricks left at 11 am M1 for 45 bricks used between 11 30 am and 1 pm or 75 bricks left at 1 pm A1 for 16:00 or 4pm (accept 4 o'clock)  (SC B1 for 3 pm or 3 30pm if M0 scored) (SC B1 for 7 hours needed if M0 scored)
20		$\frac{\sqrt{20.4}}{6.2 \times 0.48} = \frac{4.5166359}{2.976}$	1.5176(868)	2	B2 for 1.5176  (B1 for sight of 4.51(66359) or 4.52 or 2.976 or 2.98 or 1.51 or 1.52 or 1.518 or or 1.517 or 1.5177 or $\frac{\sqrt{510}}{5}$ )

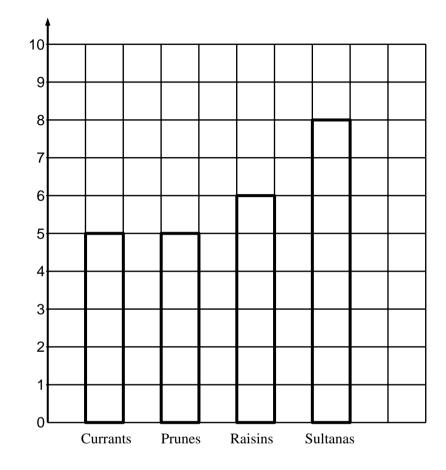
1MA	0_2F				
Qu	estion	Working	Answer	Mark	Notes
21	(a)		56	1	B1 for 56 (accept answer in the range 55 to 57)
	(b)	Barry's Bricks £50 Bricks ArUs £65 65 – 50	15	3	M1 for 50 or 65 (accept 64 – 66) M1 for 65 – 50 (accept 64-66 for 65) A1 for 15 (accept answer in range 14 to 16)
22	(a)	1 – 0.7	0.3	2	M1 for 1 – 0.7 A1 for 0.3 oe
	(b)	200 ×0.7	140	2	M1 for 200 ×0.7 A1 for 140
23		$25 \div 50 = 0.5 \text{ h} = 30 \text{ min}$ $25 \div 60 = 0.416 \text{ h} = 25 \text{ min}$	5	3	M1 for $25 \div 50$ or $\frac{60}{50} \times 25$ or $30$ (min) or $0.5$ (h)  or $25 \div 60$ or $\frac{60}{60} \times 25$ or $25$ (min) or $0.41$ (6)(h)  M1(dep) '0.5' -'0.41(6)' or '30' - '25'  A1 cao  OR  M1 for $60 \div 25$ (= 2.4) and $60 \div$ "2.4" or $50 \div 25$ (= 2) and $60 \div$ "2"  M1(dep) for '30' - '25'  A1 cao

Working	Answer	Mark	Notes
Angle $DEC = 180 - 41 = 139$ Angles on a straight line sum to $180^{\circ}$ Angle $EDC = 60 - 38$ or Angle $ABD = 180 - 120 - 38$ (=22) Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ or Angles in a triangle sum to $180^{\circ}$ and Alternate angles $x = 180 - 120^{\circ} - 120^{\circ}$ and Alternate angles in a triangle sum to $180^{\circ}$ OR  Angle $ADC = 180^{\circ} - 120^{\circ} = 60^{\circ}$ Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ Angle $ECD = 41^{\circ} - 22^{\circ} = 19^{\circ}$ Exterior angle of triangle equals sum of the two opposite interior angles  OR  Angle $DBC = 38^{\circ}$ Angle $DCC = 38^{\circ}$	$x = 19^{\circ}$ and reasons	4	M1 for $DBC = 38^{\circ}$ or $ADC = 60^{\circ}$ (can be implied by $BDC = 22^{\circ}$ ) or $ABC = 60^{\circ}$ or $DCB = 120^{\circ}$ or $(ABD = 180 - 120 - 38 (=22)$ M1 for $(BDC = )60 - 38 (=22)$ or $BDC = '22'$ or $(DEC = )180 - 41 (=139)$ or $(BCE = )180 - 41 - 38 (=101)$ M1 (dep on both previous M1) for complete correct method to find $x$ or $(x = )19$ C1 for $x = 19^{\circ}$ AND Co-interior/allied angles of parallel lines sum to $180^{\circ}$ or Opposite angles of a parallelogram are equal or Alternate angles  AND  Angles on a straight line sum to $180^{\circ}$ or Exterior angle of triangle equals sum of the two opposite interior angles or Angles in a quadrilateral sum to $360^{\circ}$
	Angle $DEC = 180 - 41 = 139$ Angles on a straight line sum to $180^{\circ}$ Angle $EDC = 60 - 38$ or Angle $ABD = 180 - 120 - 38$ (=22) Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ or Angles in a triangle sum to $180^{\circ}$ and Alternate angles $x = 180 - 120^{\circ} = 180^{\circ}$ Angles in a triangle sum to $180^{\circ}$ OR  Angle $ADC = 180^{\circ} - 120^{\circ} = 60^{\circ}$ Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ Angle $ECD = 180^{\circ} - 120^{\circ} = 60^{\circ}$ Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ Angle $ECD = 22^{\circ}$ Angle $ECD = 41^{\circ} - 22^{\circ} = 19^{\circ}$ Exterior angle of triangle equals sum of the two opposite interior angles  OR  Angle $ECD = 101^{\circ}$	Angle $DEC = 180 - 41 = 139$ Angles on a straight line sum to $180^{\circ}$ Angle $EDC = 60 - 38$ or  Angle $ABD = 180 - 120 - 38$ (=22)  Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ or  Angles in a triangle sum to $180^{\circ}$ and  Alternate angles $x = 180 - 120 - 38$ (=22)  Co-interior/Allied angles of parallel lines  OR  Angle $ADC = 180^{\circ} - 120^{\circ} = 60^{\circ}$ Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ Angle $EDC = 22^{\circ}$ Angle $ECD = 41^{\circ} - 22^{\circ} = 19^{\circ}$ Exterior angle of triangle equals sum of the two opposite interior angles  OR  Angle $DBC = 38^{\circ}$	Angle $DEC = 180 - 41 = 139$ Angles on a straight line sum to $180^{\circ}$ Angle $ABD = 180 - 120 - 38$ (reasons)  Angle $ABD = 180 - 120 - 38$ (=22)  Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ and Alternate angles $x = 1180 - 139^{\circ} - 120^{\circ}$ and Alternate angles in a triangle sum to $180^{\circ}$ OR  Angle $ADC = 180^{\circ} - 120^{\circ} = 60^{\circ}$ Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ Angle $ADC = 180^{\circ} - 120^{\circ} = 60^{\circ}$ Co-interior/Allied angles of parallel lines sum to $180^{\circ}$ Angle $EDC = 22^{\circ}$ Angle $ECD = 41^{\circ} - 22^{\circ} = 19^{\circ}$ Exterior angle of triangle equals sum of the two opposite interior angles  OR  Angle $BCC = 38^{\circ}$ Alternate angles  Angle $BCC = 101^{\circ}$ Angle sum of a triangle is $180^{\circ}$ Angle $BCD = 120^{\circ}$ Opposite angles of a parallelogram are equal

1MA	0_2F				
Qu	estion	Working	Answer	Mark	Notes
25	(a)		-1, 0, 1, 2, 3	2	B2 for all 5 correct values; ignore repeats, any order (B1 for 4 correct (and no incorrect values) eg. 0, 1, 2, 3 <b>or</b> one additional value, eg –1, 0, 1, 2, 3, 4)
	(b)		$-4 < x \le 3$	2	B2 for $-4 < x \le 3$ or $> -4$ and $\le 3$ (B1 for $-4 < x$ or $x > -4$ or $x \le 3$ or $3 \ge x$ or $> -4$ or $\le 3$ or $-4 \le x < 3$ ) (NB Accept the use of any letter)
	(c)	3y-2>5 $3y>7$	$y > \frac{7}{3}$	2	M1 for clear intention to add 2 to both sides (of inequality or equation) or clear intention to divide all terms by 3 or $3y > 7$ or $3y < 7$ or $3y = 7$ A1 $y > \frac{7}{3}$ or $y > 2\frac{1}{3}$ or $y > 2.3$ NB. final answer <b>must</b> be an inequality  (SC B1 for $\frac{7}{3}$ oe seen if M0 scored)
26	(a)		2(2x+5y)	1	B1 cao
	(b)		x(x+7)	1	B1 cao
27		Triangle at (-2, 2), (-2, 0),(-1,-1)	Correct figure	2	M1 for any translation A1 for correct translation

2

Frequency

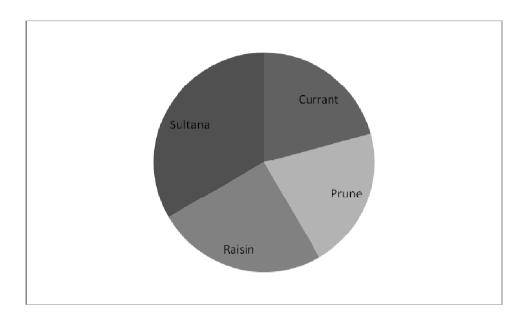


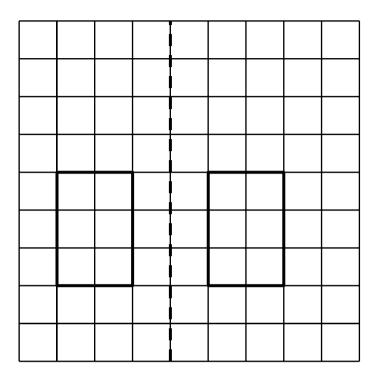
(Type of Dried Fruit)

2 (alt)

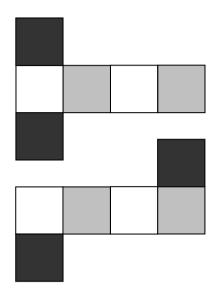
Currants	0000	
Prunes	0000	
Raisins	00000	Key: = 1 person
Sultanas	0000000	itey. — I person

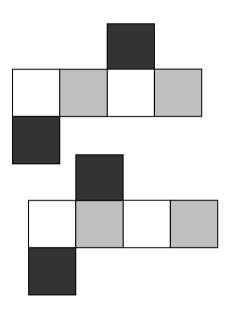
# 2 (alt)

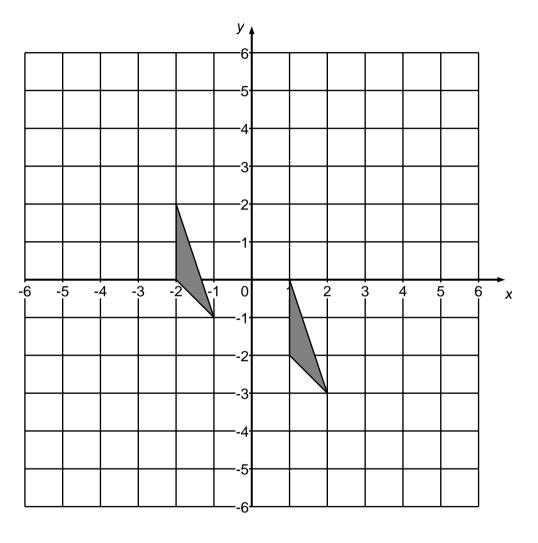




15b and c







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