PINPOINT REVISION PACKS

52_to_70_Percent_Pinpoint_AI_Pack

Time Allocation = 92mins , Max = 81 Marks

Calculated Grade Boundaries:

Grade	Marks
2	12
2+	24
3-	35
3	47
3+	58
4-	70
4	81

Question 1 (AO1): (No Calc) 48% of students got this right (2 marks)

10. Make an accurate drawing of an equilateral triangle of side length 5 cm.

(Total 2 marks)

Question 2 (AO2): 46% of students got this right (4 marks)

15. Here are the ingredients needed to make 12 shortcakes.

Shortcakes	
Makes **12** shortcakes	
50 g	of sugar
200 g	of butter
200 g	of flour
10 m*l*	of milk

Liz makes some shortcakes.
She uses 25 m*l* of milk.

(a) How many shortcakes does Liz make?

.....

(2)

Robert has 500 g of sugar
1000 g of butter
1000 g of flour
500 m*l* of milk

(b) Work out the greatest number of shortcakes Robert can make.

.....

(2)

(Total 4 marks)

Question 3 (AO1): (No Calc) 45% of students got this right (3 marks)

14.

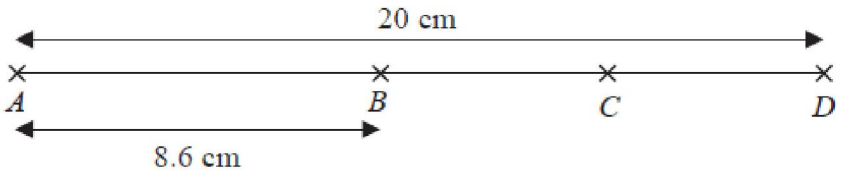


Diagram **NOT** accurately drawn

A, *B*, *C* and *D* are points on a straight line.
AD = 20 cm
AB = 8.6 cm
BC = *CD*

Work out the length of *BC*.

..... cm

(Total 3 marks)

Question 4 (AO1): (No Calc) 44% of students got this right (1 marks)

8a The stem and leaf diagram shows information about the heights, in cm, of the boys in a class.

14	0	2	9			
15	1	1	3	5	7	
16	2	4	5	7	8	9
17	6	6	7	9		
18	0	0	1			

Key: 15 | 1 represents 151 cm

(a) Find the median height.

..... cm

(1)

Question 5 (AO1): (No Calc) 44% of students got this right (1 marks)

3 Write $\frac{3}{25}$ as a percentage.

..... %

(Total for Question 3 is 1 mark)

Question 6 (AO1): (No Calc) 42% of students got this right (4 marks)

12. Here is a bus timetable from a Park and Ride car park to a town centre.

Car park	Town centre
0740	0752
0800	0812
0815	0827
then every 15 minutes until	
1815	1827

Sadia gets to the car park at 0745.
She catches the next bus to the town centre.

(*a*) What time should the bus get to the town centre?

.....
(1)

Here is the bus timetable from the town centre to the car park.

Town centre	Car park
0803	0815
0835	0847
0902	0914
0920	0932
then every 15 minutes until	
1920	1932

(*b*) How many buses go from the town centre to the car park between 0800 and 1000?

.....
(2)

Paul wants to leave the town centre after 1730.
He is going to catch a bus to the car park.

(*c*) What is the time of the first bus Paul can catch from the town centre after 1730?

.....
(1)

(Total 4 marks)

Question 7 (AO3): (No Calc) 41% of students got this right (3 marks)

14. Buses to Acton leave a bus station every 24 minutes.
Buses to Barton leave the same bus station every 20 minutes.

A bus to Acton and a bus to Barton both leave the bus station at 9 00 am.

When will a bus to Acton and a bus to Barton next leave the bus station at the same time?

.....

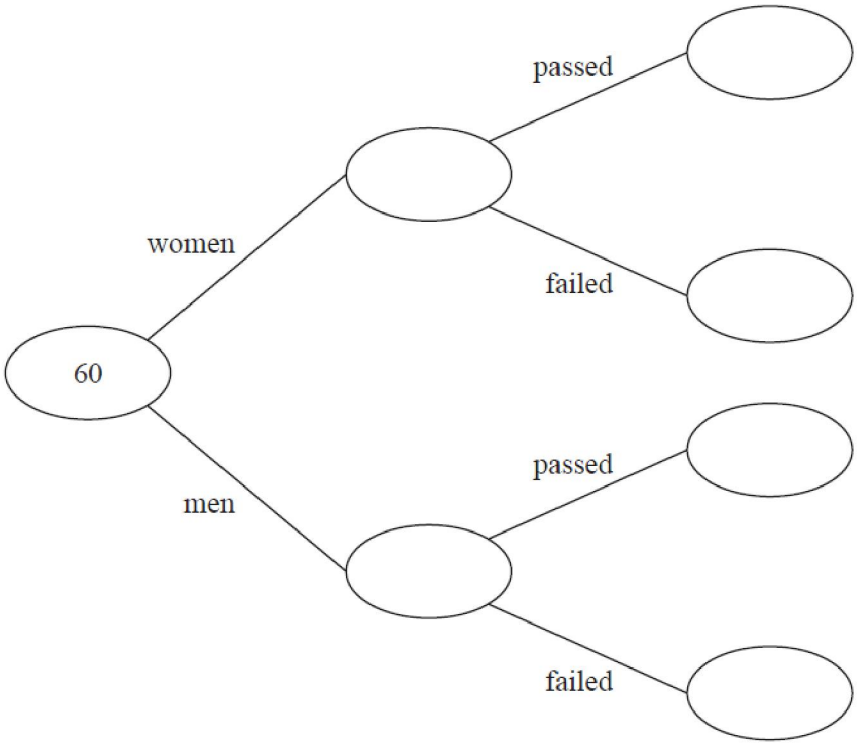
(Total 3 marks)

Question 8 (AO1): (No Calc) 41% of students got this right (2 marks)

12b 60 people each took a driving test one day.

25 of these people were women.
22 of the 60 people failed their test.
20 of the men passed their test.

Use this information to complete the frequency tree.



One of the men is chosen at random.

(b) Work out the probability that this man failed his test.

.....

(2)

(Total for Question 12 is 5 marks)

Question 9 (AO3): (No Calc) 40% of students got this right (5 marks)

19 Ajit is a barber.

He charges £5 for a haircut.

He charges 10% extra for hair gel.

One day 65 customers have a haircut.

12 of these ask for hair gel.
Work out the **total** amount that Ajit charges his customers that day.

[5 marks]

Answer £ _____

Question 10 (AO3): (No Calc) 40% of students got this right (3 marks)

23 The air pressure in a tyre measures 8.4 bar.
Air is leaking out at the rate of 0.7 bar per day.

23 (a) Assume that the air continues to leak at the same rate.
After how many days will the pressure measure 3.5 bar?

[2 marks]

Answer _____

23 (b) In fact, the rate that the air leaks out increases each day.
How does this affect your answer to part (a)?

[1 mark]

Question 11 (AO3): (No Calc) 40% of students got this right (4 marks)

11. Here is part of a bus timetable from Harrow Lane to Cartbridge Street.

Harrow Lane to Cartbridge Street

Harrow Lane	08 02	09 04	10 12	11 02	12 04	12 12
Elm Drive	08 19	09 21	10 29	11 19	12 21	12 29
Hamden Road	08 32	09 34	10 42	11 32	12 34	12 42
Swipe Crescent	08 41	09 43	10 51	11 41	12 43	12 51
Cartbridge Street	08 50	09 52	11 01	11 50	12 52	13 01

Here is part of a bus timetable from Cartbridge Street to Harrow Lane.

Cartbridge Street to Harrow Lane

Cartbridge Street	13 11	14 14	15 07	16 11	17 14	18 07
Swipe Crescent	13 20	14 24	15 16	16 20	17 24	18 16
Hamden Road	13 29	14 33	15 25	16 29	17 33	18 25
Elm Drive	13 43	14 47	15 39	16 43	17 47	18 39
Harrow Lane	13 53	14 57	15 49	16 53	17 57	18 49

Peter lives in Harrow Lane.
His grandmother lives in Swipe Crescent.

Peter visits his grandmother.
He goes by bus from Harrow Lane to Swipe Crescent.

Peter wants to have at least 3 hours with his grandmother.
He needs to be back at Harrow Lane by 16 00

(*c*) Plan Peter's journey to visit his grandmother and get back to Harrow Lane.
You must include the times of the buses.

(4)

Question 12 (AO2): (No Calc) 40% of students got this right (5 marks)

16. Tom is going to buy 25 plants to make a hedge.

Here is information about the cost of buying the plants.

Kirsty's Plants	**Hedge World**
£2.39 each	Pack of 25 £52.50 plus VAT at 20%

Tom wants to buy the 25 plants as cheaply as possible.

Should Tom buy the plants from Kirsty's Plants or from Hedge World?
You must show all your working.

(Total 5 marks)

Question 13 (AO1): (No Calc) 39% of students got this right (4 marks)

15. (*a*) Expand and simplify $2(x + 3y) + 4(x - y)$

.....

(2)

(*b*) Factorise completely $8p - 12pq$

.....

(2)

(Total 4 marks)

Question 14 (AO1): (No Calc) 36% of students got this right (4 marks)

16. (*a*) Find the Highest Common Factor (HCF) of 30 and 42.

.....

(2)

(*b*) Find the Lowest Common Multiple (LCM) of 30 and 45.

.....

(2)

(Total 4 marks)

Question 15 (AO1): (No Calc) 36% of students got this right (2 marks)

14 A cafe sells cakes and scones.

On Tuesday, the ratio of the number of cakes sold to the number of scones sold was 3 : 8
On Tuesday, the cafe sold 75 cakes.

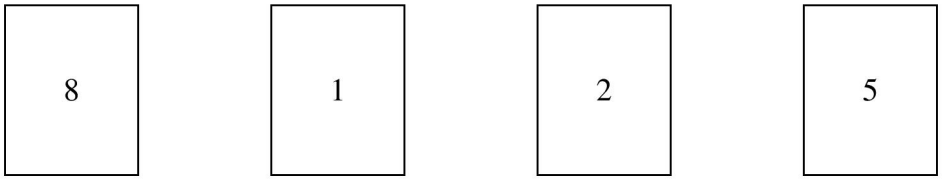
How many scones were sold on Tuesday?

.....

(Total for Question 14 is 2 marks)

Question 16 (AO1): (No Calc) 36% of students got this right (1 marks)

2 Here are four cards.
There is a number on each card.



(b) Write down the smallest 4-digit even number that can be made using each card only once.

.....

(1)

(Total for Question 2 is 2 marks)

Question 17 (AO1): (No Calc) 35% of students got this right (2 marks)

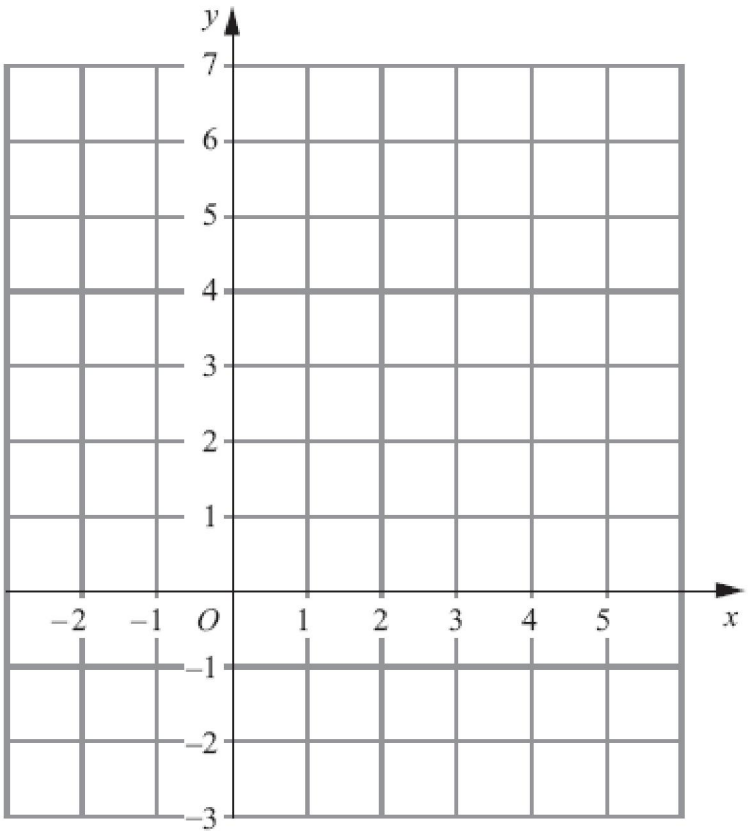
21 Solve $\frac{y}{4} - 12 = 8$

[2 marks]

$y =$ _____

Question 18 (AO1): (No Calc) 34% of students got this right (3 marks)

14. On the grid draw the graph of $x + y = 4$ for values of x from -2 to 5



(Total 3 marks)

Question 19 (AO2): (No Calc) 34% of students got this right (3 marks)

12. On Monday Ravi drives for 4 hours.
His average speed is 30 mph.

(*a*) How far does Ravi drive on Monday?

On Tuesday Ravi drives 200 km.

5 miles = 8 kilometres.

(*b*) On which day did Ravi drive further?

(3)

(Total 5 marks)

Question 20 (AO1): (No Calc) 34% of students got this right (5 marks)

13. A charity made an appeal for money.

The charity put the information shown below on a poster.

Hunger appeal

- £3 will buy 5 meals for one person.
- £100 will buy lunches for 80 school children for 5 days.

£3 will buy 5 meals for one person.

(*a*) Work out the cost of one of the meals.
Give your answer in pence.

..... p
(2)

£100 will buy lunches for 80 school children for 5 days.

(*b*) Work out the cost of buying lunch for one school child for one day.

.....
(3)

(Total 5 marks)

Question 21 (AO1): (No Calc) 32% of students got this right (4 marks)

17 A shopkeeper uses this formula to work out the cost of bags of oranges.

$C = 1.6n$

C is the cost in £

n is the number of bags

17 (a) Work out the cost of 8 bags. **[2 marks]**

Answer £ _____

17 (b) There are four oranges in each bag.
Work out the average cost of an orange. Give your answer in pence. **[2 marks]**

Answer _____ pence

Question 22 (AO1): (No Calc) 32% of students got this right (1 marks)

7. Jack and Max share some counters.

Jack has 3 times as many counters as Max.

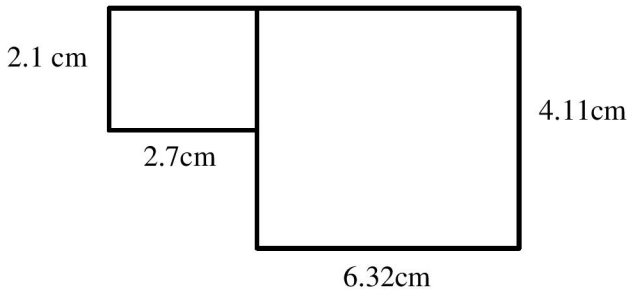
(*b*) What fraction of the counters does Max have?

.....

(1)

Question 23 (AO2): (No Calc) 32% of students got this right (1 marks)

13 This shape is made from two rectangles.



Work out an estimate for the total area of the shape.

(b) Is your answer to (a) an overestimate or an underestimate?
Give a reason for your answer.

.....

.....

(1)

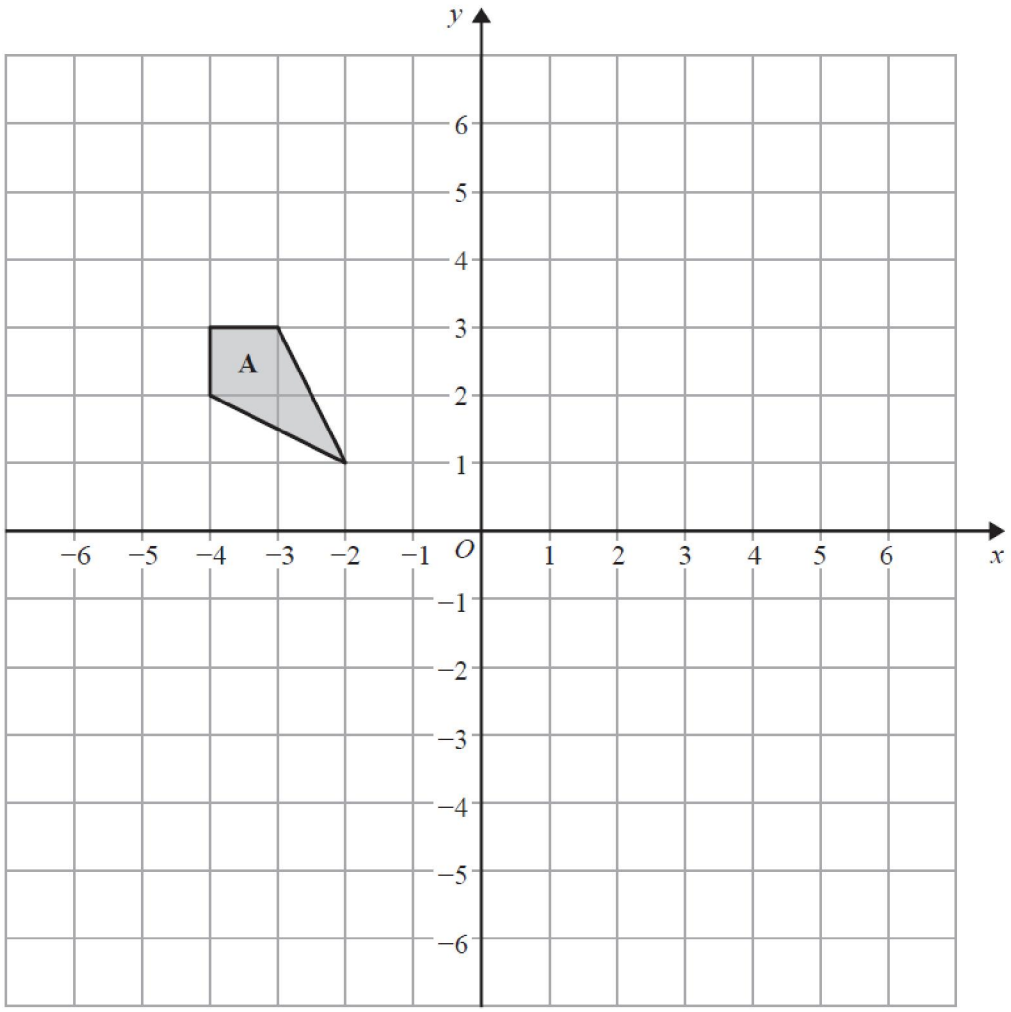
(Total for Question 13 is 4 marks)

Question 24 (AO1): (No Calc) 32% of students got this right (1 marks)

10 (b) On the grid, translate shape **B** by the vector $\begin{pmatrix} -5 \\ 7 \end{pmatrix}$

Label the new shape **C**.

(1)



Question 25 (AO2): (No Calc) 31% of students got this right (4 marks)

17. There are 50 counters in a bag.

The counters are blue or yellow or black or white.
A counter is taken at random from the bag.

The table shows each of the probabilities that the counter will be blue or black or white.

Colour	blue	yellow	black	white
Probability	0.4		0.3	0.16

Work out the number of yellow counters in the bag.

.....

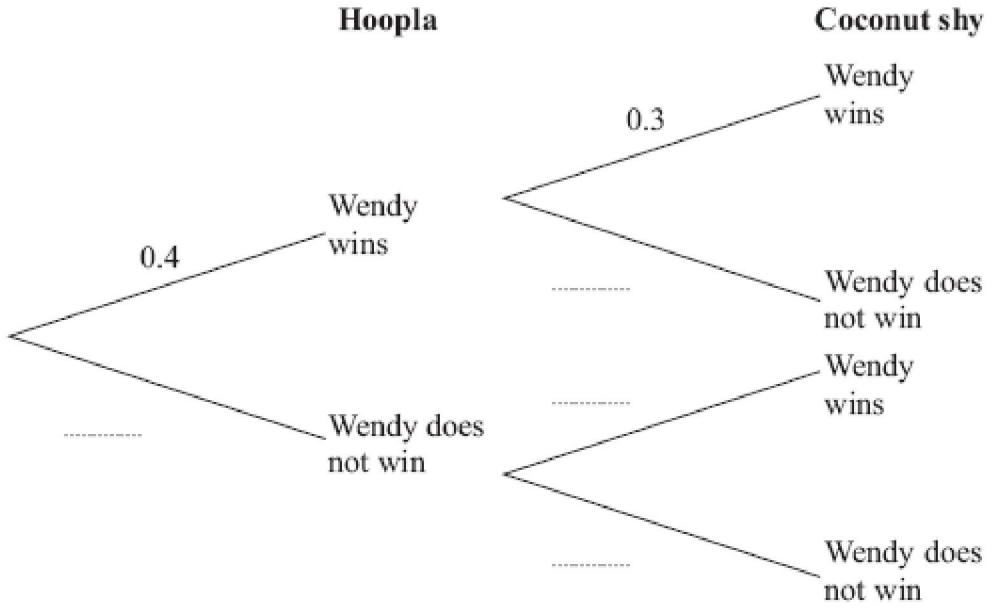
(Total 4 marks)

Question 26 (AO1): 31% of students got this right (4 marks)

19. Wendy goes to a fun fair.
She has one go at Hoopla.
She has one go on the Coconut shy.

The probability that she wins at Hoopla is 0.4
The probability that she wins on the Coconut shy is 0.3

(*a*) Complete the probability tree diagram.



(2)

(*b*) Work out the probability that Wendy wins at Hoopla and also wins on the Coconut shy.

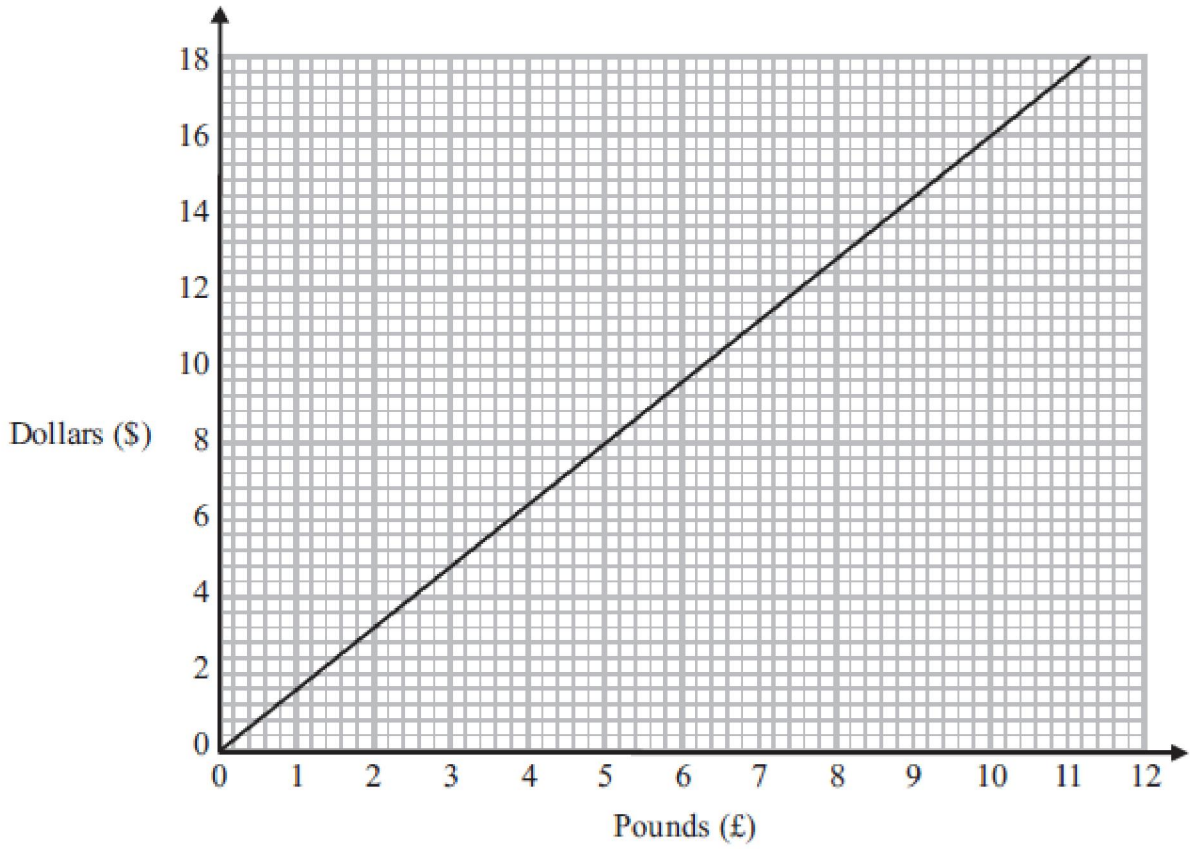
.....

(2)

(Total 4 marks)

Question 27 (AO1): (No Calc) 31% of students got this right (5 marks)

17. You can use this conversion graph to change between pounds (£) and dollars ($).



(a) Use the conversion graph to change £5 to dollars.

$ .....
(1)

Ella has $200 and £800
Her hotel bill is $600

Ella pays the bill with the $200 and some of the pounds.

(b) Use the conversion graph to work out how many pounds she has left.

£ .....
(4)

(Total 5 marks)

Ext Qn1 (AO1): (No Calc) Only 25% of students got this right(2 mark

22. (*b*) Expand and simplify $(2y + 7)(y - 3)$

.....

(2)

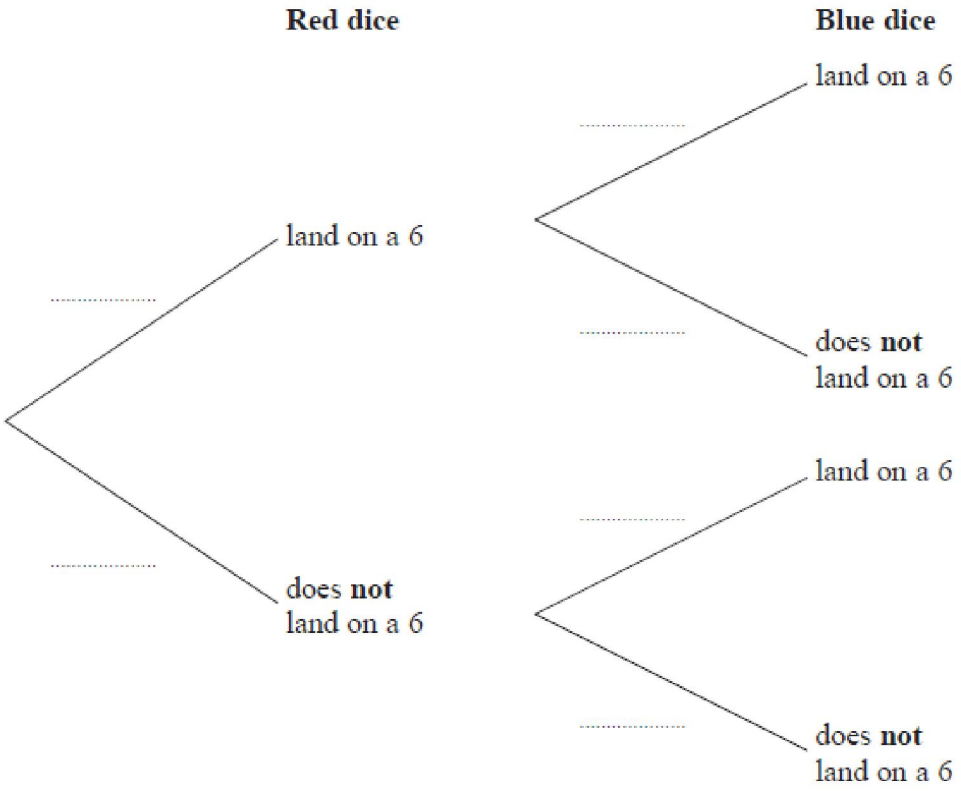
(Total 3 marks)

Ext Qn2 (AO2): Only 25% of students got this right(4 marks)

23. Graham has a fair red 6-sided dice and a fair blue 8-sided dice.
The red dice can land on 1, 2, 3, 4, 5 or 6
The blue dice can land on 1, 2, 3, 4, 5, 6, 7 or 8

Graham is going to roll both dice.

(a) Complete the probability tree diagram.



(2)

(b) Work out the probability that neither dice will land on a 6

.....

(2)

(Total for Question 23 is 4 marks)

Ext Qn3 (AO1): (No Calc) Only 25% of students got this right(3 mark

10 An American airline has a maximum size for bags on its planes.
The diagram shows the maximum dimensions.



Chris has a bag.

It has
height 50 cm
width 40 cm
depth 20 cm

1 inch = 2.54 cm

Can Chris take this bag on the plane?
You must show your working.

Answers to Qn 1 (AO1): (No Calc) 48% of students got this right

10.			Triangle drawn	2	M1 for a triangle with at least one side of length 5 cm (± 0.2) or at least one angle 60° (±2°) A1 for a correct triangle

Answers to Qn 2 (AO2): 46% of students got this right

Question		Working	Answer	Mark	Notes
15.	(a)		30	2	M1 for 25 ÷ 10 **or** 2.5 seen **or** 10 ÷ 25 **or** 0.4 seen **or** 12 + 12 + 6 oe **or** a complete method e.g. 25 × 12 ÷ 10 oe A1 cao
	(b)	1000 ÷ 200 × 12	60	2	M1 for 500 ÷ 50 **or** 1000 ÷ 200 **or** 500 ÷ 10 **or** correct scale factor clearly linked with one ingredient e.g. 10 with sugar or 5 with butter or flour or 50 with milk **or** an answer of 120 or 600 A1 cao

Answers to Qn 3 (AO1): (No Calc) 45% of students got this right

14.			5.7	3	M1 for $20 - 8.6$ (=11.4) M1 for '11.4' ÷ 2 A1 cao **or** M1 for $2x + 8.6 = 20$ (or equivalent) M1 for clear intention to subtract 8.6 from each side A1 cao

Answers to Qn 4 (AO1): (No Calc) 44% of students got this right

8 The stem and leaf diagram shows information about the heights, in cm, of the boys in a class.

14	0	2	9			
15	1	1	3	5	7	
16	2	4	5	7	8	9
17	6	6	7	9		
18	0	0	1			

Key: 15 | 1 represents 151 cm

(a) Find the median height.

165 cm

Answers to Qn 5 (AO1): (No Calc) 44% of students got this right

3 Write $\frac{3}{25}$ as a percentage.

$\frac{3}{25} \times \frac{4}{4} = \frac{12}{100}$

$\frac{12}{100} \times 100 = 12\%$

Answers to Qn 6 (AO1): (No Calc) 42% of students got this right

12.	(a)		08 12	1	B1 cao
	(b)		6	2	M1 for evidence of counting on 15 minutes from 09 20, could be shown with table A1 cao
	(c)		17 35	1	B1 cao

Answers to Qn 7 (AO3): (No Calc) 41% of students got this right

14.		Acton after 24, 48, 72, 96, 120 Barton after 20, 40, 60, 80, 100, 120 LCM of 20 and 24 is 120 9:00 am + 120 minutes **OR** Acton after 24, 48, 1h 12 m, 1h 36m, 2h Barton after 20, 40, 1 h, 1h 20m, 1h 40m, 2h LCM is 2 hours 9:00 am + 2 hours **OR** Times from 9:00 am when each bus leaves the bus station Acton at 9:24, 9:48, 10:12, 10:36, 11:00 Barton at 9:20, 9:40, 10:00, 10:20, 10:40, 11:00 **OR** $20 = 2 \times 2 \times 5$ $24 = 2 \times 2 \times 2 \times 3$ $2 \times 2 \times 2 \times 3 \times 5 = 120$	11:00 am	3	M1 for listing multiples of 20 and 24 with at least 3 numbers in each list ; multiples could be given in minutes or in hours and minutes (condone one addition error in total in first 3 numbers in lists) A1 identify 120 (mins) or 2 (hours) as LCM A1 for 11:00 (am) or 11(am) or 11 o'clock **OR** M1 for listing times after 9am when each bus leaves the bus station, with at least 3 times in each list (condone one addition error in total in first 3 times after 9am in lists) A1 for correct times in each list up to and including 11:00 A1 for 11:00 (am) or 11(am) or 11 o'clock **OR** M1 for correct method to write 20 and 24 in terms of their prime factors 2, 2, 5 and 2, 2, 2, 3 (condone one error) A1 identify 120 as LCM A1 for 11:00 (am) or 11(am) or 11 o'clock

Answers to Qn 8 (AO1): (No Calc) 41% of students got this right

12 One of the men is chosen at random.

(b) Work out the probability that this man failed his test.

$\frac{15}{35} = \frac{3}{7}$

Answers to Qn 9 (AO3): (No Calc) 40% of students got this right

19 Ajit is a barber.

He charges £5 for a haircut.

He charges 10% extra for hair gel.

One day 65 customers have a haircut.

12 of these ask for hair gel.
Work out the **total** amount that Ajit charges his customers that day.

10 % of £5.00 = 50 p

£5.00 + 50p = £5.50

£5.50 × 12 = £66

£5.00 × 53 = £265

265 + 66

Answer £ 331

Answers to Qn 10 (AO3): (No Calc) 40% of students got this right

23 The air pressure in a tyre measures 8.4 bar.

Air is leaking out at the rate of 0.7 bar per day.

23 (a) Assume that the air continues to leak at the same rate.
After how many days will the pressure measure 3.5 bar?

8.4 – 3.5 = 4.9
4.9 ÷ 0.7

Answer 7

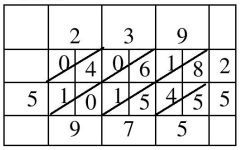
23 (b) In fact, the rate that the air leaks out increases each day.
How does this affect your answer to part (a)?

Quicker than 7 days

Answers to Qn 11 (AO3): (No Calc) 40% of students got this right

11.	(*c*)	e.g. HL to SC: 11 02 – 11 41 Visit (at least 3 hours) SC to HL: 15 16 – 15 49 [Note : there are 9 possible solutions]	A fully correct plan showing departure times and arrival times of the two bus journeys	4	B1 for a departure time of 08 02 or 09 04 or 10 12 or 11 02 from HL M1 (indep) for a correct arrival time at SC and a correct departure time from SC (or Cartbridge St) which allows for a stay of at least 3 hours in SC (the differencing does not have to be seen) **OR** for correctly adding 3 hours to a their arrival time at SC B1 for a departure time from SC of 13 20 (13 11 from CS) or 14 24 (14 14 from CS) or 15 16 (15 07 from CS) C1 (dep on M1) for a complete correct plan which includes the departure and arrival times of the two bus journeys [Note: bus departure times may be identified by their starting times. E.g. the 15 07 from Cartbridge Street would be acceptable for the identification of the bus which arrives a HL at 15 49]

Answers to Qn 12 (AO2): (No Calc) 40% of students got this right

<table>
<tr>
<td>16.</td>
<td></td>
<td>
1195
4780 +
5975

<table>
<tr><td></td><td>2</td><td>3</td><td>9</td><td></td></tr>
<tr><td></td><td>0 4</td><td>0 6</td><td>1 8</td><td>2</td></tr>
<tr><td>5</td><td>1 0</td><td>1 5</td><td>4 5</td><td>5</td></tr>
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<tr><td>5</td><td>1000</td><td>150</td><td>45</td></tr>
</table>
4000 + 1000 + 600 + 150
+ 180 + 45 = 5975
</td>
<td>Kirsty’s Plants with correct calculations</td>
<td>5</td>
<td>
M1 for complete method with relative place value correct. Condone 1 multiplication error, addition not necessary.

M1 (dep) for addition of all the appropriate elements of the calculation or digits 5975

M1 for a complete method to find 120% of £52.50
A1 for 59.75 and 63(.00)
C1 (dep on M2) for correct conclusion for their figures

OR
M1 for the start of a method to divide £52.50 by 25, eg 2 rem 2

M1 for a complete method to divide £52.50 by 25, condone one arithmetic error, or digits 21

M1 for a complete method to find 120% of ‘£2.10’
A1 for 2.52
C1 (dep on M2) for correct conclusion for their figures

OR
M1 for a complete method to find 120% of £52.50

M1 for the start of a method to divide ‘63’ by 25, e.g.. 2 rem 13

M1 for a complete method to divide ‘63’ by 25, condone one arithmetic error, or digits 252

A1 for 2.52
C1 (dep on M2) for correct conclusion for their figures
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</table>

Answers to Qn 13 (AO1): (No Calc) 39% of students got this right

15.	(*a*)	$2x + 6y + 4x - 4y$	$6x + 2y$	2	M1 for $2x + 6y$ or $4x - 4y$ or $6x$ or $2y$ A1 for $6x + 2y$ [accept $2(3x + y)$]
	(*b*)	$2 \times 4 \times p - 3 \times 4 \times p \times q$	$4p(2 - 3q)$	2	B2 cao [B1 for $2p(4 - 6q)$ or $p(8 - 12q)$ or $4(2p - 3pq)$ or $2(4p - 6pq)$ or $4p(a + bq)$ where $a \neq 0$ and $b \neq 0$]

Answers to Qn 14 (AO1): (No Calc) 36% of students got this right

16.	(*a*)	$30 = 2 \times 3 \times 5$ $42 = 2 \times 3 \times 7$ HCF $= 2 \times 3$	6	2	M1 for 30 or 42 written correctly as a product of prime factors or attempt to list the factors of 30 and 42 (at least 4 for each including 6) A1 for HCF = 6
	(*b*)	30 , 60, 90, ... 45, 90, 135, ...	90	2	M1 for listing multiples of 30 and 45 (at least 60 and 90) or $2 \times 3 \times 5 \times 3$ A1 for LCM = 90 SC B1 for 210

Answers to Qn 15 (AO1): (No Calc) 36% of students got this right

14 A cafe sells cakes and scones.

On Tuesday, the ratio of the number of cakes sold to the number of scones sold was 3 : 8
On Tuesday, the cafe sold 75 cakes.

How many scones were sold on Tuesday?

$75 \div 3 = 25$

$8 \times 25 = 200$

200 cakes

Answers to Qn 16 (AO1): (No Calc) 36% of students got this right

2 (b) Write down the smallest 4-digit even number that can be made using each card only once.

1258

Answers to Qn 17 (AO1): (No Calc) 35% of students got this right

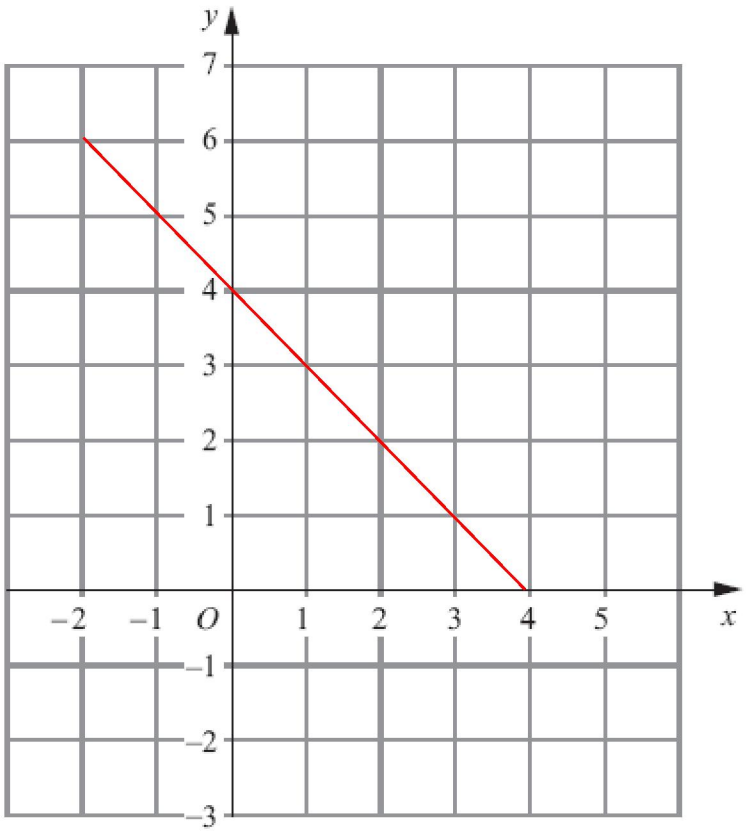
21 Solve $\frac{y}{4} - 12 = 8$

$\frac{y}{4} = 20$

$y =$ 80

Answers to Qn 18 (AO1): (No Calc) 34% of students got this right

14. On the grid draw the graph of $x + y = 4$ for values of x from -2 to 5



Points that need to be crossed

(−2, 6) (−1, 5) (0, 4) (1, 3)

(2, 2) (3, 1) (4, 0), (5, −1)

(Total 3 marks)

Answers to Qn 19 (AO2): (No Calc) 34% of students got this right

12.	(*b*)		Tuesday 125 miles > 120 miles 200 km > 192 km	3	M1 for 200 ÷ 8 × 5 or "120" ÷ 5 × 8 A1 for 125 or 192 or ft from "a" C1 (dep M1) Correct conclusion for their calculated figure with its correct units stated. of "125" miles and "a" miles **or "**192" km and 200 km

Answers to Qn 20 (AO1): (No Calc) 34% of students got this right

13.	(a)		60	2	M1 for 300 ÷ 5 or 3 ÷ 5 (or equivalent) A1 cao
	(b)		25p or £0.25	3	M1 for 100 ÷ 5 (= 20) M1 for "20" ÷ 80 or "20" × 100 ÷ 80 A1 for 25p or £0.25 **OR** M1 for 80 × 5 (= 400) M1 for 100 ÷ "400" or 100 × 100 ÷ "400" A1 for 25p or £0.25 **OR** M1 for 100 ÷ 80 (= 1.25) M1 for "1.25" ÷ 5 or "1.25" × 100 ÷ 5 A1 for 25p or £0.25

Answers to Qn 21 (AO1): (No Calc) 32% of students got this right

17 A shopkeeper uses this formula to work out the cost of bags of oranges.

$C = 1.6n$

C is the cost in £

n is the number of bags

17 (a) Work out the cost of 8 bags.

1.60×8

Answer £ 12.60

17 (b) There are four oranges in each bag.
Work out the average cost of an orange.

Give your answer in pence.

$1.60 \div 4 = 0.4$

Answer 40 pence

Answers to Qn 22 (AO1): (No Calc) 32% of students got this right

7.	(b)		$\frac{1}{4}$	1	B1

Answers to Qn 23 (AO2): (No Calc) 32% of students got this right

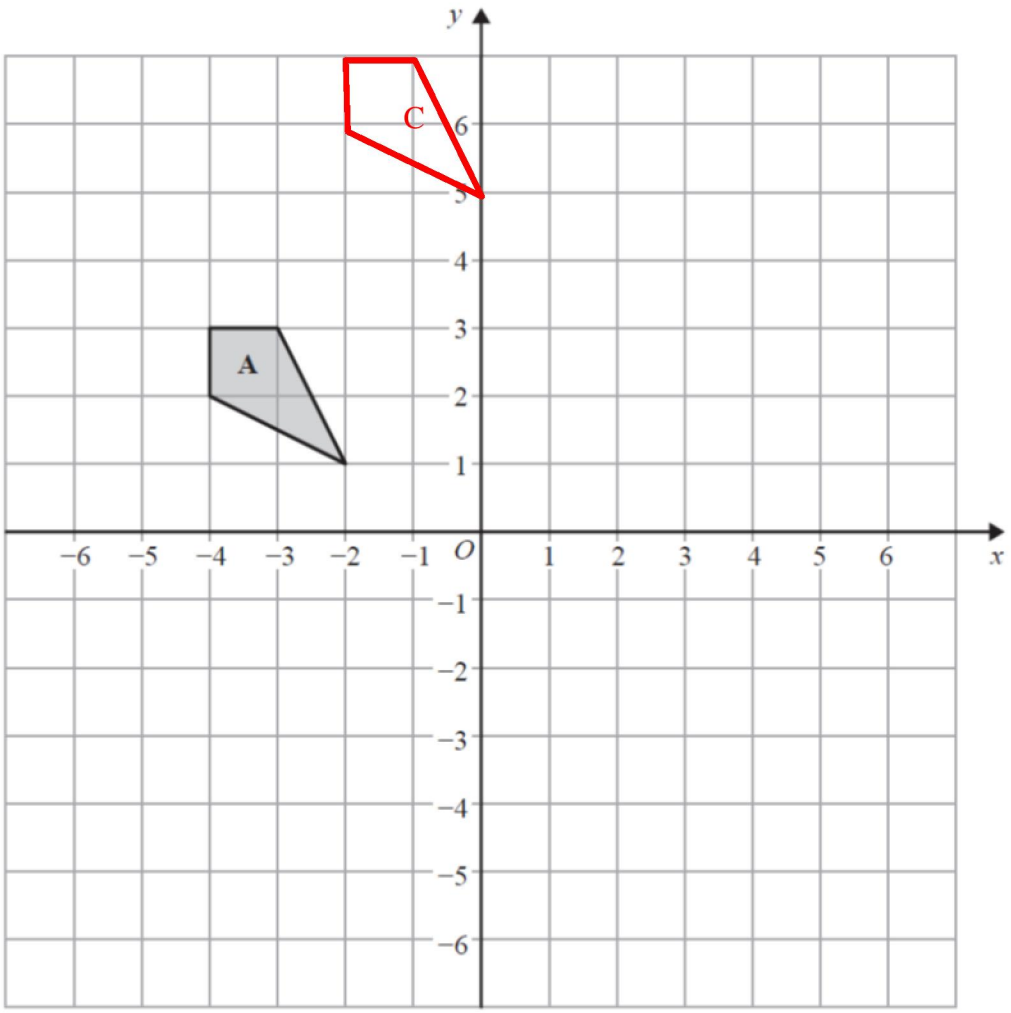
13 (b) Is your answer to (a) an overestimate or an underestimate?
Give a reason for your answer.

It is an underestimate because all of the numbers have been rounded down

Answers to Qn 24 (AO1): (No Calc) 32% of students got this right

10 (b) On the grid, translate shape **B** by the vector $\begin{pmatrix} -5 \\ 7 \end{pmatrix}$

Label the new shape **C**.



Answers to Qn 25 (AO2): (No Calc) 31% of students got this right

17. There are 50 counters in a bag.

The counters are blue or yellow or black or white.
A counter is taken at random from the bag.

The table shows each of the probabilities that the counter will be blue or black or white.

Colour	blue	yellow	black	white
Probability	0.4		0.3	0.16

Work out the number of yellow counters in the bag.

$1 - (0.4 + 0.3 + 0.16)$

$= 0.14$

$50 \times 0.14 = 7$

(Total 4 marks)

Answers to Qn 26 (AO1): 31% of students got this right

19.	(*a*)		0.6	2	B1 for 0.6 in correct position on tree diagram
			0.7, 0.3, 0.7		B1 for 0.7, 0.3, 0.7 in correct positions on tree diagram
	(*b*)	0.4 × 0.3 =	0.12	2	M1 for 0.4 × 0.3 oe **or** a complete alternative method ft from tree diagram
					A1 for 0.12 oe

Answers to Qn 27 (AO1): (No Calc) 31% of students got this right

17.	(a)		8	1	B1 for 8 (.00)
	(b)		550	4	M1 for 600 – 200 (= 400) M1 for correct method to convert '$400' to £ M1 (dep on the previous M1) for 800 – '$400' in £s A1 for value in the range 540 –560 **OR** M1 for correct method to convert $600 **and** $200 to pounds M1 for '375'–'125' M1 (dep on the previous M1) 800 –'250' A1 for a value in the range 540-560 **OR** M1 for correct method to convert £800 to dollars M1 for '1280' + 200 – 600 M1 (dep on the previous M1) for attempt to convert '$880' back to £ A1 for value in the range 540 – 560

Ext ANSWERS 1 (AO1): (No Calc) Only 25% of students got this rigl

Question		Working	Answer	Mark	Notes
22.	(b)	$2y^2 - 6y + 7y - 21$	$2y^2 + y - 21$	2	M1 for 3 out of no more than 4 terms correct with correct signs or the 4 terms $2y^2$, $6y$, $7y$ and 21 seen, ignoring signs A1 cao

Ext ANSWERS 2 (AO2): Only 25% of students got this right(4 mark

23	(a)		complete	B1	1/6, 5/6 shown on left hand branches,
			tree diagram	B1	1/8, 7/8, 1/8, 7/8 shown on right hand branches
	(b)		$\frac{35}{48}$	M1	$\frac{5}{6}\times\frac{7}{8}$ oe (or ft their tree diagram, dep on having probabilities shown)
				A1	oe (or ft tree diagram, dep on having probabilities shown)

Ext ANSWERS 3 (AO1): (No Calc) Only 25% of students got this rigl

Paper 1MA1: 1F			
Question	**Working**	**Answer**	**Notes**
10		No (supported)	P1 starts the process by converting one dimension A1 converts at least one measurement C1 conclusion eg No, since the 40 cm > 14 inches