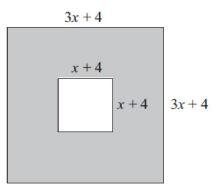
ADA PINPOINT PACKS

- 61_to_81_Percent_Pinpoint_AI_Pack
- Made for Grade6to8
- AO1,2_and_3
- ALL_Strands
- Calc_Only
- Created by A.D.A:
- Pinpoints Automatic Differention Algorithmn
- Designed and Programmed by
- Tom Quilter, Anne Mcateer + Jon Hargreaves ... All maths teachers.

Question 1 (AO3): 38% of students got this right

13. A machine part is made by cutting a small square from the centre of a large square piece of steel.

The dimensions of the machine part are shown on the diagram. All measurements are in cm.



The perimeter of the small square is two thirds of the perimeter of the large square.

Work out the length of a side of the small square.

..... cm

(Total 5 marks)

Question 2 (AO2): 38% of students got this right

16. The number of rabbits on a farm n months from now is R_n where

 $R_0 = 200$

 $R_{n+1} = 1.2R_n - 35$

How many rabbits will there be on the farm 3 months from now?

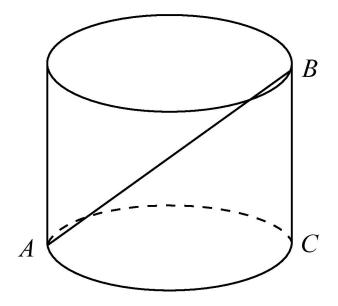
.....

(Total 3 marks)

Grade6to8 and SAMPLE PACK

Question 3 (AO3): 36% of students got this right

12 The diagram shows a metal rod, *AB*, resting inside a cylindrical tin.

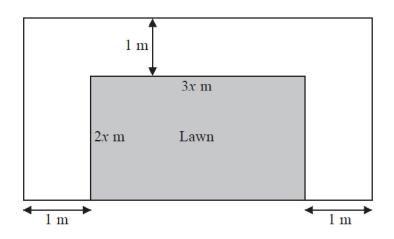


The tin is on a horizontal table. AC is a diameter of the base of the tin. B is on the top edge of the tin. BC is vertical.

The radius of the base of the tin is 5 cm. The volume of the tin is 1178 cm^3 .

Find the angle between the rod and the base of the tin. Give your answer correct to the nearest degree. Question 4 (AO2): 36% of students got this right

9. A rectangular lawn has a length of 3x metres and a width of 2x metres. The lawn has a path of width 1 metre on three of its sides.



The total area of the lawn and the path is 100 m^2

(*a*) Show that $6x^2 + 7x - 98 = 0$

(2)

Question 5 (AO1): 35% of students got this right

7 Liquid A has a density of 1.42 g/cm^3

7 cm³ of liquid **A** is mixed with 125 cm³ of liquid **B** to make liquid **C**.

Liquid C has a density of 1.05 g/cm^3

Find the density of liquid **B**. Give your answer correct to 2 decimal places.

Question 6 (AO1): 34% of students got this right

25 Work out $(13.8 \times 10^7) \times (5.4 \times 10^{-12})$ Give your answer as an ordinary number.

Question 7 (AO1): 33% of students got this right

11 Jeff is choosing a shrub and a rose tree for his garden. At the garden centre there are 17 different types of shrubs and some rose trees.

Jeff says,

"There are 215 different ways to choose one shrub and one rose tree."

Could Jeff be correct? You must show how you get your answer.

(Total for Question 11 is 2 marks)

Question 8 (AO3): 32% of students got this right

22 Madelyn uses the quadratic formula to solve a quadratic equation. She correctly substitutes values in the quadratic formula and obtains

$$x = \frac{-5 \pm \sqrt{25 - 24}}{6}$$

Determine the quadratic equation that Madelyn is solving. Express your answer in the form $ax^2 + bx + c = 0$, where *a*, *b* and *c* are integers.

.....

(Total 3 marks)

Question 9 (AO2): 32% of students got this right

18 $(x-8)(x+4) = (x-a)^2 + b$ for all values of x. Find the value of a and the value of b.

Question 10 (AO1): 31% of students got this right

15 (c) Starting with $x_0 = 1$, use the iteration formula $x_{n+1} = \frac{5}{x_n^2 + 7}$ three times to find an estimate for the solution of $x^3 + 7x - 5 = 0$

Diagram NOT

Question 11 (AO2): 30% of students got this right

A

18.

accurately drawn a В Ob OAB is a triangle. $\overrightarrow{OA} = \mathbf{a}$ $\overrightarrow{OB} = \mathbf{b}$ (a) Find the vector \overrightarrow{AB} in terms of **a** and **b**. \overrightarrow{AB} = *P* is the point on *AB* such that AP : PB = 3 : 2(b) Show that $\overrightarrow{OP} = \frac{1}{5}(2\mathbf{a} + 3\mathbf{b})$

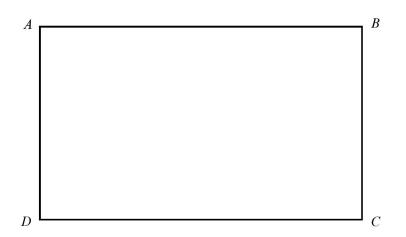
(3)

(1)

(Total 4 marks)

Question 12 (AO1): 29% of students got this right

3 Here is an accurate scale drawing of a school playground.



1 cm represents 2 m

Asif is going to put a seat in the playground.

The seat has to be

less than 9 m from Ccloser to BC than to ABmore than 4 m from AB

Show, by shading on the diagram, the region where Asif can put the seat.

Question 13 (AO3): 28% of students got this right

- 13. f is the function f(x) = 2x + 5. g is the function $g(x) = x^2 - 25$.
 - (*d*) (i) Find gf(*x*). Give your answer as simply as possible.

 $gf(x) = \dots$

(ii) Solve gf(x) = 0.

(Total 9 marks)

Question 14 (AO1): 28% of students got this right

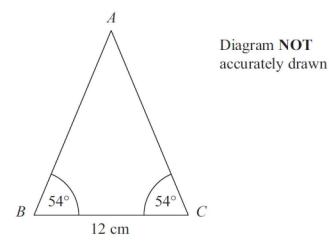
9 The functions f and g are such that

f(x) = 3(x-4) and $g(x) = \frac{x}{5} + 1$

(c) Show that ff(x) = 9x - 48

Question 15 (AO2): 27% of students got this right

18. *ABC* is an isosceles triangle.



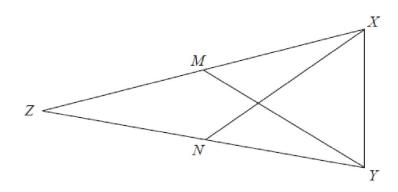
Work out the area of the triangle.

Give your answer correct to 3 significant figures.

..... cm²

Question Order Created by Pinpoint Learning for Grade6to8 and SAMPLE PACK (Total for Question 18 is 4 marks) Question 16 (AO2): 27% of students got this right

16. The diagram shows an isosceles triangle *XYZ*.



XZ = YZ

M is the midpoint of *XZ*. *N* is the midpoint of *YZ*.

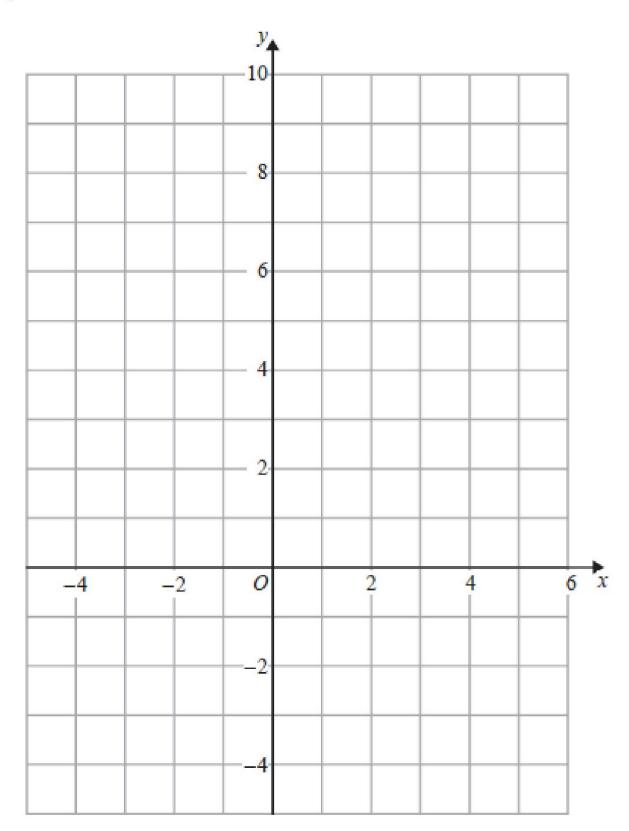
Prove that triangle *XMY* is congruent to triangle *YNX*. Give reasons for each stage of your working.

Question 17 (AO1): 26% of students got this right

10 On the grid, shade the region that satisfies all these inequalities.

$$x + y < 4 \qquad y > x - 1 \qquad y < 3x$$

Label the region **R**.



Grade6to8 and SAMPLE PACK

Question 18 (AO2): 26% of students got this right

3 3 of the 25 women have a shoe size of 7

Zoe says that if you choose at random one of the 25 women, the probability that she has either a shoe size of 7 or a dress size of 14 is $\frac{9}{25}$ because

$$\frac{3}{25} + \frac{6}{25} = \frac{9}{25}$$

(b) Is Zoe correct?You must give a reason for your answer.

(1) (Total for Question 3 is 2 marks)

Question 19 (AO3): 25% of students got this right

15. Two solid cones are mathematically similar.

Cone **A** has a volume of 120 cm^3 Cone **B** has a volume of 960 cm³

Work out the ratio of the surface area of cone A to the surface area of cone B.

.....

(Total for Question 15 is 3 marks)

Question 20 (AO3): 24% of students got this right

19 The value of a is 2.7. The value of b is 0.8.

The values of both a and b have been given correct to the nearest 0.1.

(a) Determine the upper bound for b.

$$c = a + \frac{1}{b}$$

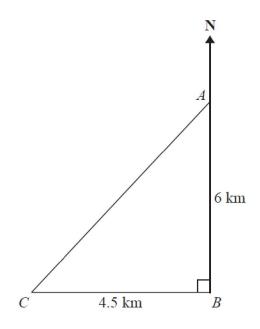
(*b*) Determine a lower bound for *c*. Show all steps in your calculations.

> (3) (Total 4 marks)

Grade6to8 and SAMPLE PACK

Question 21 (AO1): 23% of students got this right

4. The diagram shows the positions of three turbines *A*, *B* and *C*.



(b) Calculate the bearing of C from A.Give your answer correct to the nearest degree.

• (4) (Total 7 marks)

Question 22 (AO2): 23% of students got this right

25 Chloe has 40 marbles.

She has

18 green marbles15 red marbles7 blue marbles

Chloe will take two marbles at random.

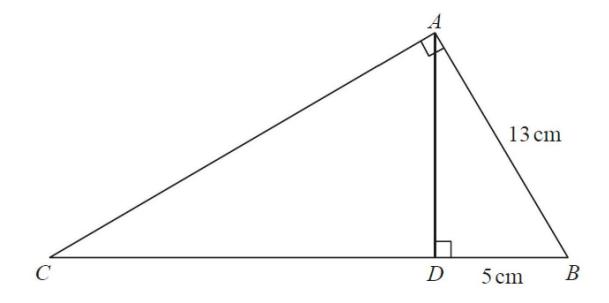
Determine the probability that the two marbles will have a **different** colour. Show all steps in your calculations.

Grade6to8 and SAMPLE PACK

.....

Question 23 (AO3): 22% of students got this right

14 *ABC* and *ABD* are two right-angled triangles.



Angle BAC = angle ADB = 90°

AB = 13 cmDB = 5 cm

Work out the length of CB.

Question 24 (AO2): 21% of students got this right

15 (a) Show that the equation $x^3 + 7x - 5 = 0$ has a solution between x = 0 and x = 1

Question 25 (AO1): 21% of students got this right

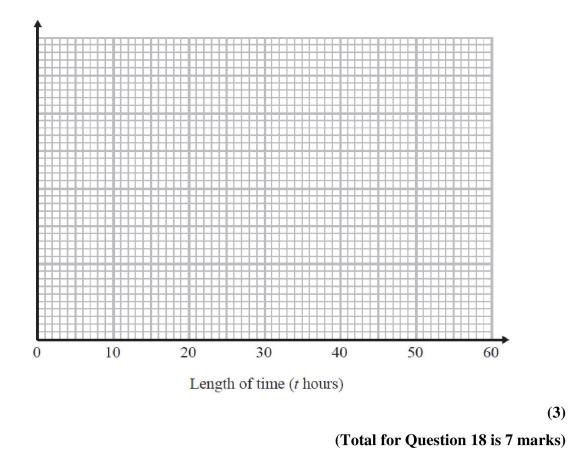
18. The table gives some information about the lengths of time, in hours, that some adults watched TV last week.

Length of time (<i>t</i> hours)	Frequency
$0 < t \le 10$	8
$10 < t \le 15$	15
$15 < t \le 20$	11
$20 < t \le 30$	10
$30 < t \le 50$	6

(*a*) Work out an estimate for the mean length of time.

RETEST QUESTION

(b) Draw a histogram for the information in the table.



Question 26 (AO1): 20% of students got this right

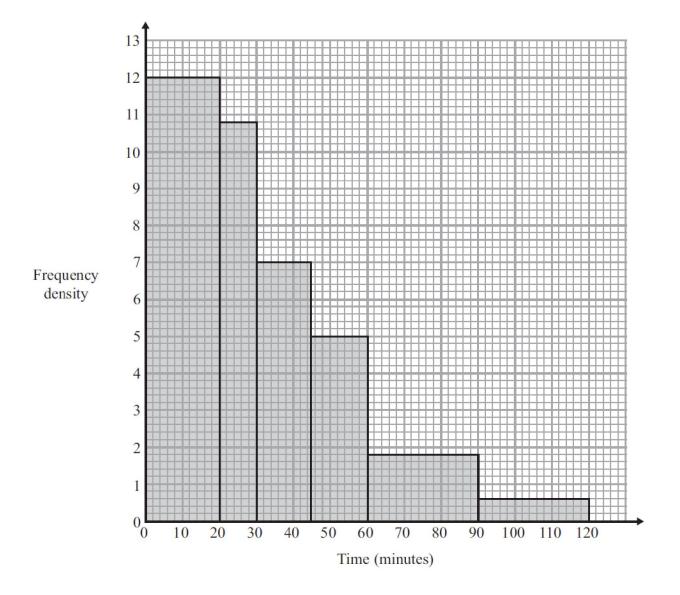
Height (<i>h</i> cm)	Frequency
$140 \le h \le 150$	15
$150 < h \leqslant 155$	30
$155 < h \leqslant 160$	51
$160 \le h \le 165$	36
$165 \le h \leqslant 180$	18

17 The table gives information about the heights of 150 students.

- (a) On the grid, draw a histogram for this information.
- (b) Work out an estimate for the fraction of the students who have a height between 150 cm and 170 cm.

Question 27 (AO3): 19% of students got this right

27. The histogram shows information about the times, in minutes, that some passengers had to wait at an airport.



Work out the percentage of the passengers who had to wait for more than one hour.

Answers to Qn 1 (AO3): 38% of students got this right

Que	stion	Working	Answer	Mark	Notes
13.		4(x+4) = 4x + 16	51/3	5	M1 for a correct expression for at least one perimeter.
		4(3x+4) = 12x + 16			M1 for " $4x + 16$ " = $\frac{2}{3}$ "($12x + 16$)" oe
		$4x + 16 = \frac{2}{3} (12x + 16)$			M1 for $12x + 48 = 24x + 32$ or $4x + 16 = 8x + \frac{32}{3}$ oe A1 for $\frac{4}{3}$
		12x + 48 = 24x + 32			B1 ft for " $\frac{4}{3}$ " + 4
		12x = 16			OR
		12.4 - 10			M2 for $x + 4 = \frac{2}{3}(3x + 4)$
					M1 for $3x + 12 = 6x + 8$ or $x + 4 = x + \frac{8}{3}$ oe
					A1 for $\frac{4}{3}$
					B1 ft for " $\frac{4}{3}$ " + 4
					Grade6to8 and SAMPLE PACK

Answers to Qn 2 (AO2): 38% of students got this right

16.	218	3	M1 for $1.2 \times 200 - 35$ (= 205) (oe)
			M1 for complete iterative method, e.g. 2 months: 1.2 × "205" – 35 3 months: 1.2 × "211"– 35 A1 for 218, accept 218.2

Answers to Qn 3 (AO3): 36% of students got this right

Que	stion	Working	Answer	Mark	Notes
12			56	P1	for correct substitution into the formula for the volume of a cylinder, e.g. $\pi \times 5^2 \times h$ (= 1178)
				P1	for correct rearrangement to find the height e.g. $h = 1178 \div (\pi \times 5^2)$ (=
					(14.99876184)
				P1	(dep on P1) for correct use of tangent ratio,
					e.g. $\tan x = $ "14.99" ÷ 10
				A1	for answer in the range 56 to 56.31

Answers to Qn 4 (AO2): 36% of students got this right

Question	Working	Answer	Mark	Notes
Question 9. (a)	Working $(3x + 2)(2x + 1) =$ 100 $6x^2 + 4x + 3x + 2 =$ 100	$6x^2 + 7x - 98 = 0 *$	Mark 2	NotesM1or $(2x \times 3x) + 2(2x + 1) + 3x = 100$ oeor $(2x \times 3x) + (2 \times 2x (\times 1)) + 1) + 3x + 1 + 1 = 100$ oeother partitions are acceptable but partitioning must go on to form a correct equation.A1Accept $6x^2 + 7x + 2 = 100$ if M1 awardedawarded
	Question Ore	lor Croated by	Dinnoin	t Learning for Grade6to8 and SAMPLE PACK

Answers to Qn 5 (AO1): 35% of students got this right

Question	Working	Answer	Mark	Notes
7		1.03	P1	for process to find the mass of either A or C ,
				e.g. 7 × 1.42 (= 9.94) or (7 + 125) × 1.05 (= 138.6)
			P1	(dep) for a complete process to find the density of B , e.g. ("138.6" – "9.94") ÷ 125
			A1	for answer in the range 1.029 to 1.03
			Gi	ade6to8 and SAMPLE PACK

Answers to Qn 6 (AO1): 34% of students got this right

Part	Working or answer an examiner might expect to see	Mark	Notes
25	$13.8 \times 5.4 \times 10^{7} \times 10^{-12}$ = 74.52 × 10 ⁻⁵ = 7.452 × 10 ⁻⁴	1	This mark is given for the digits 7452 seen
	0.000 745 2	1	This mark is given for the correct answer only

Question Order Created by Pinpoint Learning for Grade6to8 and SAMPLE PACK

Answers to Qn 7 (AO1): 33% of students got this right

Question 11 (Total 2 marks)

Part	Working an or answer examiner might expect to see	Mark	Notes
	$215 \div 17 = 12.6$	P1	This mark is given for a process to find the number of rose trees
	No, 12.6 is not a whole number (and a whole number of plants must be bought)	C1	This mark is given for a correct conclusion, supported by correct reasoning

Answers to Qn 8 (AO3): 32% of students got this right

-				
22		$3x^2 + 5x + 2$	3	M1 for finding a correct coefficient
		= 0		M1 for a method to find <i>a</i> and <i>c</i> or <i>b</i> and <i>c</i>
				A1 $3x^2 + 5x + 1 = 0$ or $a = 3, b = 5, c = 2$

Answers to Qn 9 (AO2): 32% of students got this right

Question	Working	Answer	Mark	Notes
18		2, -36	P1	for process to expand $(x - 8)(x + 4)$ or $(x - a)^2$
			P1	for process to find value of a (may be implied by $a = 2$)
			A1	cao
				Grade6to8 and SAMPLE PAC

Answers to Qn 10 (AO1): 31% of students got this right

Part	Working or answer an examiner might expect to see	Mark	Notes
15 (c)	$x_1 = 0.625$	1	This mark is given for the first correct iteration
	$x_2 = 0.6765327696$	1	This mark is given for the second correct iteration
	$x_3 = 0.6704483001$	1	This mark is given for the third correct iteration
			Grade6to8 and SAMPLE PA

Answers to Qn 11 (AO2): 30% of students got this right

Que	estion	Working	Answer	Mark	Notes
18.	(a)		b – a		B1 for $\mathbf{b} - \mathbf{a}$ or $-\mathbf{a} + \mathbf{b}$ oe
	estion (a) (b)	Working $\overrightarrow{OP} = \overrightarrow{OA} + \overrightarrow{AP}$ $\overrightarrow{OP} = \mathbf{a} + \frac{3}{5}(\mathbf{b} - \mathbf{a})$ $\overrightarrow{OP} = \frac{1}{5}(2\mathbf{a} + 3\mathbf{b})$		Mark	Notes B1 for $\mathbf{b} - \mathbf{a}$ or $-\mathbf{a} + \mathbf{b}$ oe M1 for $\overrightarrow{OP} = \overrightarrow{OA} + \overrightarrow{AP}$ oe or $\overrightarrow{OP} = \overrightarrow{OB} + \overrightarrow{BP}$ oe M1 for $\overrightarrow{AP} = \frac{3}{5}(\mathbf{b} - \mathbf{a})$ oe or $\overrightarrow{BP} = \frac{2}{5}(\mathbf{a} - \mathbf{b})$ oe A1 for $\mathbf{a} + \frac{3}{5}(\mathbf{b} - \mathbf{a})$ or $\mathbf{b} + \frac{2}{5}(\mathbf{a} - \mathbf{b})$ oe leading to given answer with correct expansion of brackets seen
					Grade6to8 and SAMPLE PACK

Answers to Qn 12 (AO1): 29% of students got this right

Question	Working	Answer	Mark	Notes
3		Correct region	B 1	for an arc of radius 4.5 cm centred on <i>C</i>
			B 1	for a correct angle bisector drawn at angle <i>ABC</i>
			B1	for a line drawn 2 cm from <i>AB</i>
			C1	for the correct region shaded; accept any consistent shading
	Question Order	Prooted by Dippoint Loorni	na for C	rade6to8 and SAMPLE PACK

Answers to Qn 13 (AO3): 28% of students got this right

13.	(d)(i)	$(2x+5)^2 - 25$ $4x^2 + 10x + 10x + 25$ oe		5	M1 B1 for correct expansion of $(2x + 5)^2$
			$4x^2 + 20x$		A1 for a correct fully or partially factorised expression
	(d) (ii)	4x(x+5) (= 0) or $x(4x+20) (=0)$	$x = 0, \ x = -5$		M1 for, e.g., $\frac{-20 \pm \sqrt{20^2 - 4 \times 4 \times 0}}{2 \times 4}$
		or $2x(2x + 10)$ (=0) or $x(x + 5)$ (=0)			
		$\int x(x+3) (=0)$			A1 for both solutions

Answers to Qn 14 (AO1): 28% of students got this right

Paper 1MA1	: 2H				
Question	Working	Answer	Notes		
9 (c)		9x - 48 shown	M1 for method to find composite function A1 for working leading to $9x - 48$		
			Grade6to8 and SAMPLE PAC		

Answers to Qn 15 (AO2): 27% of students got this right

18 ABC is an isosceles triangle.

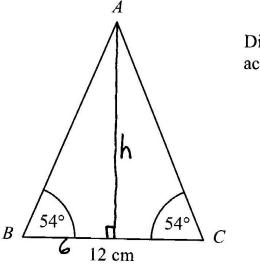


Diagram **NOT** accurately drawn

Work out the area of the triangle.

Give your answer correct to 3 significant figures.

$$\frac{1}{6} \frac{1}{6} \frac{1}$$

$$A = \frac{1}{2}bxh$$

= $\frac{1}{2}x12x8.258291523$
= 49.54974...
 249.5 cm^2 (35F)

Answers to Qn 16 (AO2): 27% of students got this right

	16.	4	M1 for angle MXY = angle NYX Reason = 'base angles of an isosceles triangle are equal' (oe)
			M1 for $MX = NY$ Reason = 'M and N divide the equal sides XZ and YZ in equal parts' (oe) C1 for either reason quoted above or 'XY is common' C1 for All reasons correct and SAS seen

Answers to Qn 17 (AO1): 26% of students got this right

aper 1MA1: 3H			
Question	Working	Answer	Notes
10	8	Region R	M1 for one line correctly drawn
			M1 for two or more lines correctly
			drawn
			A1 for a correct region indicated
			between two correct lines
			A1 fully correct region indicated with all
			lines correct
			1
			Grade6to8 and SAMPLE

Answers to Qn 18 (AO2): 26% of students got this right

Question 3 (Total 2 marks)

Part	Working or answer an examiner might expect to see	Mark	Notes
(b)	No, categories are not mutually exclusive (a woman could be in both categories)	C 1	This mark is given for a correct statement

Answers to Qn 19 (AO3): 25% of students got this right

15	1:4	M1	for method to find the volume scale factor, e.g. $960 \div 120$ (=8)
		M1	(dep M1) for a complete process to find the area sf $(\sqrt[3]{4} (8))^2$
		A1	oe

Answers to Qn 20 (AO3): 24% of students got this right

		···			0 0
19	(a)		0.85	1	B1 cao
	(b)		3.8-3.83	3	B1 2.65 or 0.85
					M1 for $2.65 + \frac{1}{0.85}$
					A1 3.8(2)-3.83 or $\frac{1301}{340}$ from a correct method seen

Answers to Qn 21 (AO1): 23% of students got this right

Que	stion	Working	Answer	Mark	Notes
4	(b)		217	4	M1 for use of appropriate trig ratio
					eg tan $CAB = \frac{4.5}{6}$ (= 0.75),
					$\sin CAB = \frac{4.5}{"7.5"} \ (= 0.6), \cos CAB = 6$
					$\frac{6}{"7.5"}$ (=0.8)
					M1 for inverse trig shown correctly
					e.g. $CAB = \tan^{-1} \frac{4.5}{6} (= 0.75),$
					$CAB = \sin^{-1} \frac{4.5}{"7.5"} (= 0.6), CAB =$
					$\cos^{-1}\frac{6}{"7.5"} \ (=0.8)$
					A1 for 36.8 to 37 (or 53 to 53.2 if identified as <i>ACB</i>)
					B1ft for bearing 180 + "36.8" if "36.8" is not 40–50
					Grade6to8 and SAMPLE PA

25 $\begin{bmatrix} \frac{18}{40} \times \frac{22}{39} + \frac{15}{40} \times \frac{25}{39} + \frac{7}{40} \times \frac{33}{39} \\ \frac{1002}{1560} \end{bmatrix} \begin{pmatrix} 4 \\ B1 \text{ for a second 'branch' probability seen (could be seen in a tree)} \\ M1 \text{ for a product of any first and second stage correct probabilities} \\ M1 \text{ for a complete method to find the required probability} \\ A1 \text{ for } \frac{1002}{1560} \text{ oe} \\ Note if decimals used they must be correct to 2 decimal places} \\ SC \text{ with replacement} \\ B2 \text{ for } \frac{1002}{1600} \text{ oe} \\ B0 \\ M1 \frac{18}{40} \times \frac{7}{39} + \frac{7}{40} \times \frac{15}{39} + \frac{15}{40} \times \frac{15}{39} \\ \frac{15}{40} \times \frac{7}{39} + \frac{7}{40} \times \frac{15}{39} + \frac{15}{40} \times \frac{15}{39} \\ \frac{1102}{1560} \times \frac{7}{40} \times \frac{7}{40} \times \frac{15}{39} + \frac{15}{40} \times \frac{15}{39} \\ \frac{1102}{1560} \times \frac{11002}{1560} \times \frac{11002}{1560} \\ \frac{1102}{1560} \times \frac{11002}{1560} \times \frac{11002}{1560} \\ \frac{1102}{1600} \times \frac{11002}{1600} \times \frac{11002}{1600} \\ \frac{1102}{1600} \times \frac{11002}{160} \\ \frac{1102}{160}$	F	1112	wers to QII 22 ((AO2). 23%	5 <u>01 S</u>	ludents got uns right
	25		$\frac{1}{40} \times \frac{1}{39} + \frac{1}{40} \times \frac{1}{39} + \frac{1}{40} \times \frac{1}{39}$ or $1 - (\frac{18}{40} \times \frac{17}{39} + \frac{15}{40} \times \frac{14}{39} + \frac{7}{40} \times \frac{6}{39})$ or $\frac{18}{40} \times \frac{15}{39} + \frac{18}{40} \times \frac{7}{39} + \frac{15}{40} \times \frac{18}{39}$			M1 for a product of any first and second stage correct probabilities M1 for a complete method to find the required probability A1 for $\frac{1002}{1560}$ oe Note if decimals used they must be correct to 2 decimal places SC with replacement B2 for $\frac{1002}{1600}$ oe B0 M1 $\frac{18}{40} \times \frac{22}{40}$ or $\frac{15}{40} \times \frac{25}{40}$ or $\frac{7}{40} \times \frac{33}{40}$ M1 $\frac{18}{40} \times \frac{22}{40} + \frac{15}{40} \times \frac{25}{40} + \frac{7}{40} \times \frac{33}{40}$

Answers to Qn 22 (AO2): 23% of students got this right

Answers to Qn 23 (AO3): 22% of students got this right

Paper 1MA1: 2H Image: Marking series of the series of t
1433.8P1for recognition of similar triangles or equal ratio of P11433.8P1for recognition of similar triangles or equal ratio of P1P1sides for process to find CB, eg. A1 $\frac{5}{13} = \frac{13}{CB}$

Answers to Qn 24 (AO2): 21% of students got this right

Part	Working or answer an examiner might expect to see	Mark	Notes
15 (a)	f(0) = -5 and $f(1) = 3$,	1	This mark is given for showing the sign changes between $f(0)$ and $f(1)$
	Thus since there is a sign change, the solution is between $x = 0$ and $x = 1$	1	This mark is given for a correct comment
			Grade6to8 and SAMPLE PA

Question Order Created by Pinpoint Learning for Grade6to8 and SAMPLE PACK

Answers to Qn 25 (AO1): 21% of students got this right

18 The table gives some information about the lengths of time, in hours, that some adults watched TV last week.

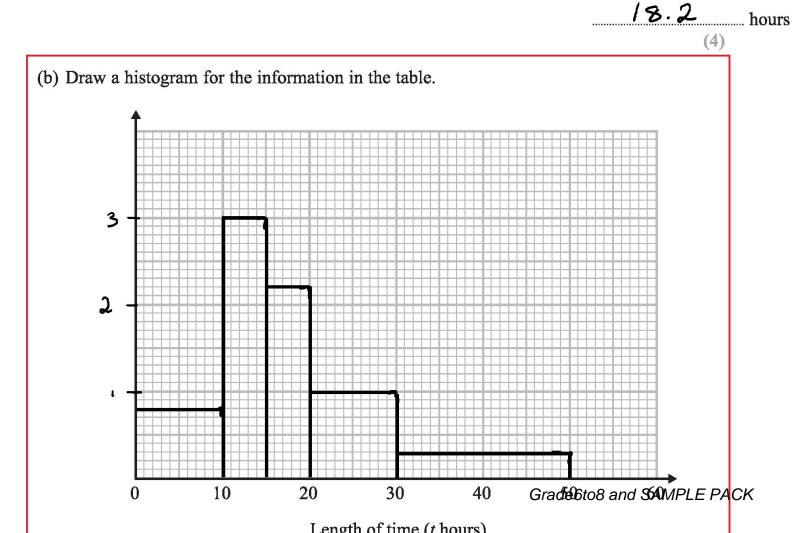
Length of time (<i>t</i> hours)	Frequency	me xf	f q
$0 \leq t < 10$ 5x	8	40	8°. D
$10 \le t < 15$ (2.5×	15	187.5	3
$15 \le t < 20 \ 17.5 \times$	11	192.5	2.2
20 ≤ <i>t</i> < 30 2 5 ×	10	250	ļ
$30 \leqslant t < 50$ 40 ×	6	240	0.3

50

910

(a) Work out an estimate for the mean length of time.

910 ÷ 50 = 18.2

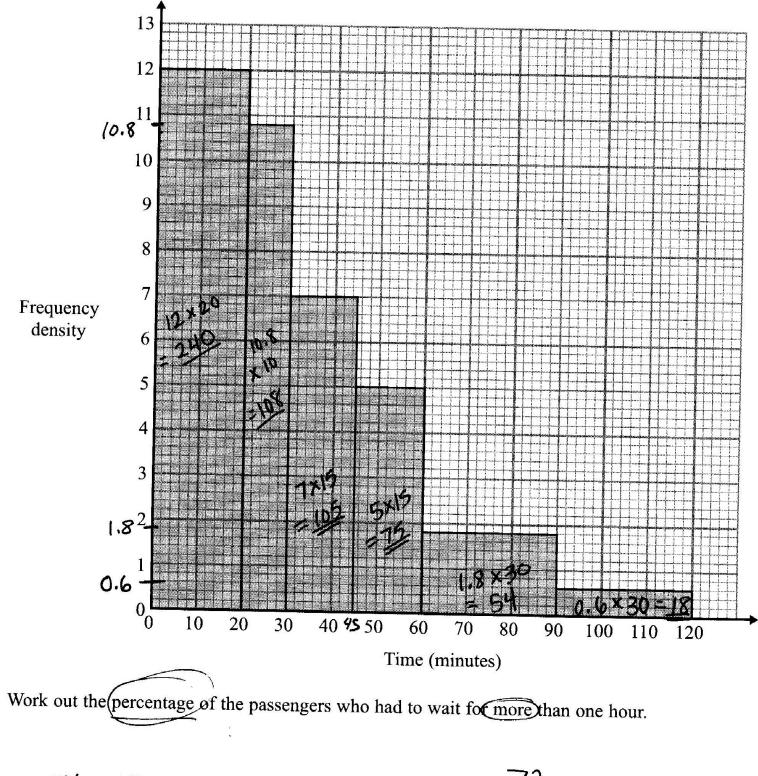


Answers to Qn 26 (AO1): 20% of students got this right

Paper: 1MA1/2	H			
Question	Working	Answer	Mark	Notes
Question 17 (b)	working	<u>123</u> 150	Mark M1 A1	For a method to find number of students in interval, eg 30 + 51 + 36 + $\frac{1}{3}$ × 18 (= 123) or 150 - 15 - $\frac{2}{3}$ × 18 (= 123) for $\frac{123}{150}$ oe or 0.82 or 82%
				Grade6to8 and SAMPLE PACK

Answers to Qn 27 (AO3): 19% of students got this right

27 The histogram shows information about the times, in minutes, that some passengers had to wait at an airport.



<u>54 + 18</u> 240 + 108 + 105 + 75 + 54 + 18 $\frac{72}{00} = 0.12$

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