Please check the examination deta	ils below	before ente	ring your can	didate information	
Candidate surname			Other name	s	
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre	Number		Candidate Number	
Thursday 6 Ju	ine	201	19		
Morning (Time: 1 hour 30 minute	Paper Reference 1MA1/2F				
Mathematics					
Paper 2 (Calculator) Foundation Tier					
You must have: Ruler graduated protractor, pair of compasses, pe Tracing paper may be used.					

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided

 there may be more space than you need.
- You must **show all your working**.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is 80
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

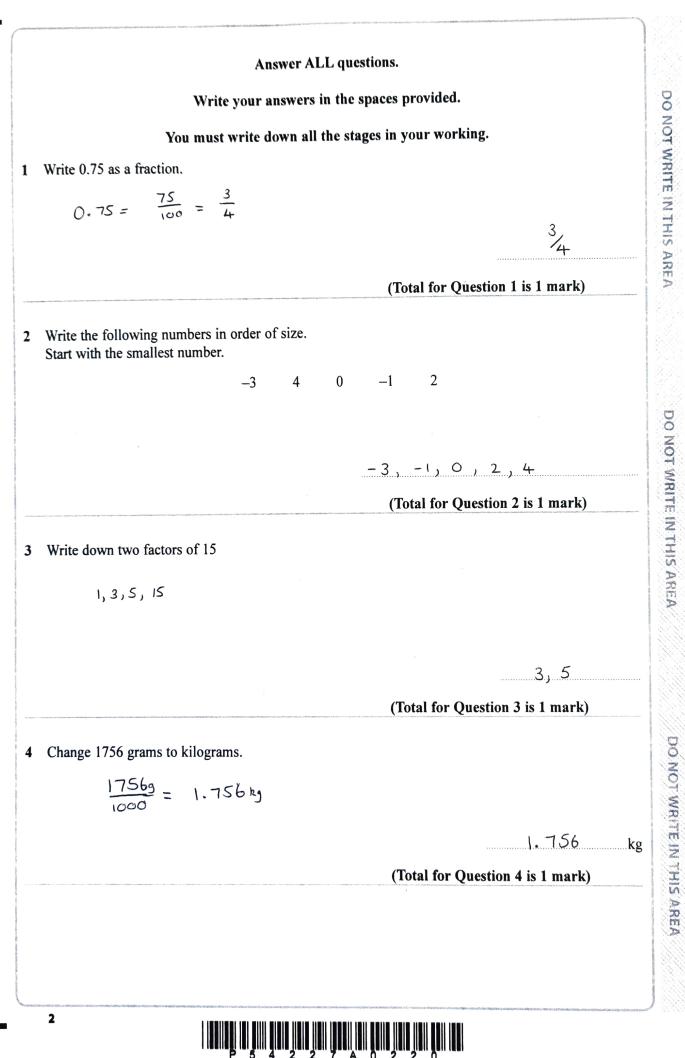












2000 000	
(Total for Question 5 is 1 mark)	10 and 10 ar
Dave goes into a cafe and buys 2 cups of coffee and a piece of cake.	
Each cup of coffee costs £2.75 The cake costs £2.90	
Dave pays with a £10 note.	
He thinks he will get more than £1.50 in change.	
Is Dave correct? You must show how you get your answer.	
$(2 \times f_2, 75) + f_2.90 = f_8.40$	
E10 - E8.40 = E1.60 > E1.50	
Dave is correct.	
(Total for Question 6 is 3 marks)	
3 Turn ove	10000

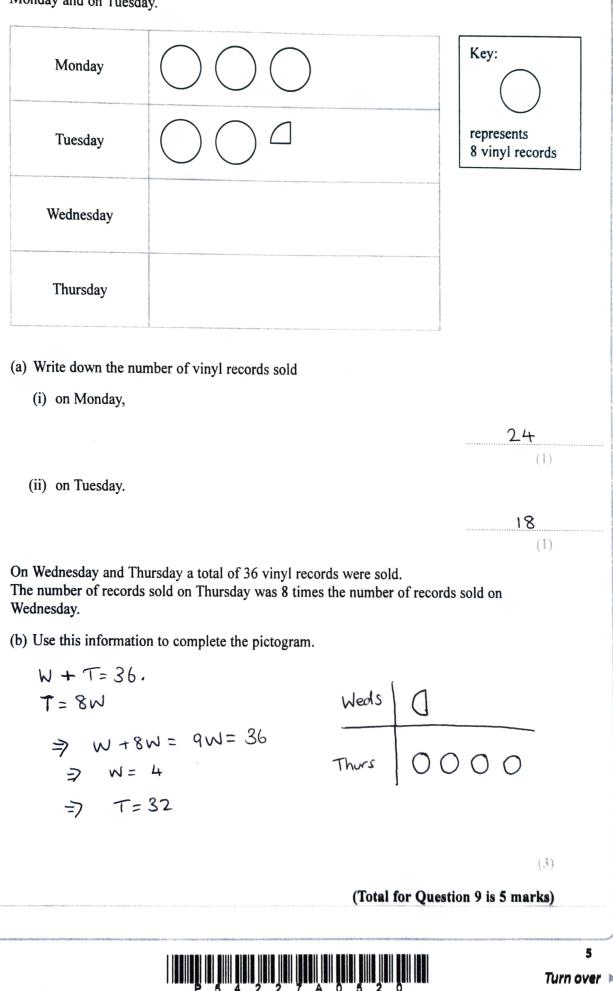
6

5 Write the number two million in figures.

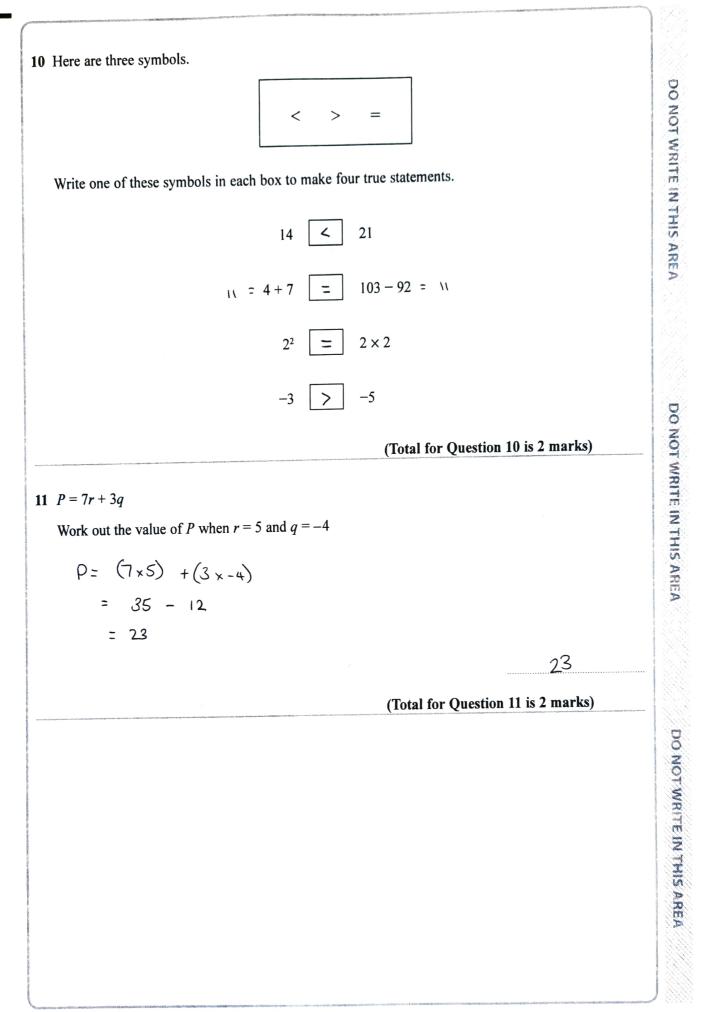
DO NOT WRITE IN THIS AREA

			74	
	ლიფალებიკისტიფიი — დაქვ სიძნ სის მსწიც რამშიი მამ ბას	(Total for Que	estion 7 is 1 mark)	Staan 97-Alianitz 4
(a) Simplify $a \times b \times 7$				
			7ab	
(b) Simplify $y \times y \times y$			(ver	
(o) Simplify y x y x y				
			3 U	
(c) Simplify fully $\frac{e \times e \times e \times f}{e \times e \times f \times f}$			J ₍₁₎	
$\frac{e \times e \times e \times f}{e \times e \times f \times f} = \frac{e^3 f}{e^2 f^2} =$	$\frac{e^{x^{1}}}{f^{x_{1}}} =$	e(q		
			ef	
			(2)	
	an kala para para kata da karagan paga na miti kata da mang karan-	(Total for Que	stion 8 is 4 marks)	çındalarını, ormanı i

The pictogram shows information about the number of vinyl records sold in a shop on 9 Monday and on Tuesday.



Turn over 🕨



12 Here is part of a train timetable.

Brighton	0722	0729	0732
London	0900	0832	0848

Graham gets to the station in Brighton at 0715

(a) Work out how many minutes he has to wait until 0722

(b) Work out how long it will take the 0722 train to get to London.

98 minutes OR <u>1 hav</u>, <u>38 minutes</u> (2)

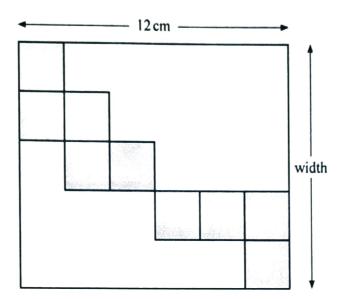
7

minutes

(1)

(Total for Question 12 is 3 marks)

13 The diagram shows nine identical squares inside a rectangle.



The length of the rectangle is 12 cm.

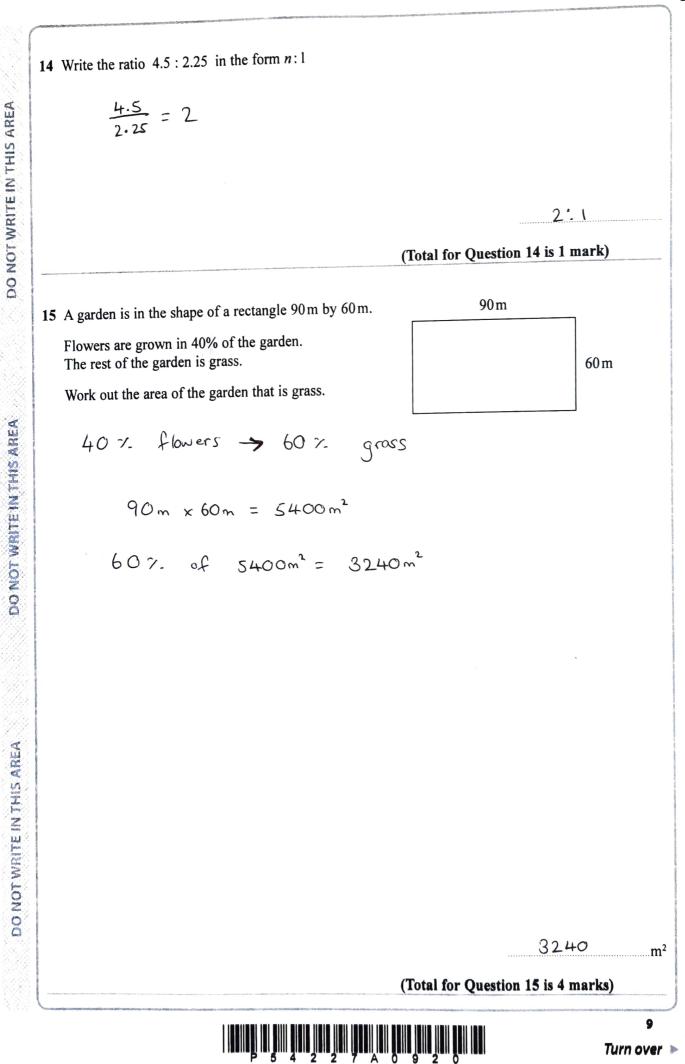
Work out the width of the rectangle.

6 square lengths = 12cm. The rectangle is 5 squares tall, so, $\frac{12cm}{6} \times 5 = 10cm.$ (Total for Question 13 is 3 marks)



cm

10



16 Four biased coins, A, B, C and D are thrown. The probability that each coin will land on Heads is shown in the table. DO NOT WRITE IN THIS AREA Coin Probability A 0.33 B 0.033 $\frac{1}{3}$ С D 30% (a) (i) Which coin is least likely to land on Heads? B (ii) Which coin is most likely to land on Heads? DO NOT WRITE IN THIS AREA Julie says, "The probability that coin C will land on Heads is the same as the probability that coin C will land on Tails." (b) Is she correct? Give a reason for your answer. No, the probability of landing on Tails is 1- P(Heads) 2/3. 1 - 3 = 2/3, so they are not equally linely. 1/3 DO NOT WRITE IN THIS AREA Coin B is going to be thrown 4000 times. (c) Work out an estimate for the number of times coin B will land on Heads. $4000 \times 0.033 = 132$ 132 (Total for Question 16 is 5 marks) 10

17 There are 84 calories in 100 g of banana. There are 87 calories in 100 g of yogurt.

Priti has 60 g of banana and 150 g of yogurt for breakfast.

Work out the total number of calories in this breakfast.

Banana: $\frac{60g}{100g} \times 84$ kcal = 50.4 kcal Voghurt: $\frac{150g}{100g} \times 87$ kcal = $\frac{130.5}{180.9}$ kcal



(Total for Question 17 is 4 marks)



18 Machine A and machine B both make car parts.

Machine A makes 6 parts every 10 minutes. Machine B makes 13 parts every 15 minutes.

On Monday machine A makes parts for 12 hours machine B makes parts for 10 hours

Work out the total number of parts made by the two machines on Monday.

Machine A: 12 hours = 720 minutes
6 ports every 10 minutes gives

$$6 \times \frac{720}{10} = 432$$
 parts
Machine B: 10 hours = 600 minutes
13 parts every 15 minutes gives

$$13 \times \frac{600}{15} = 520$$
 parts

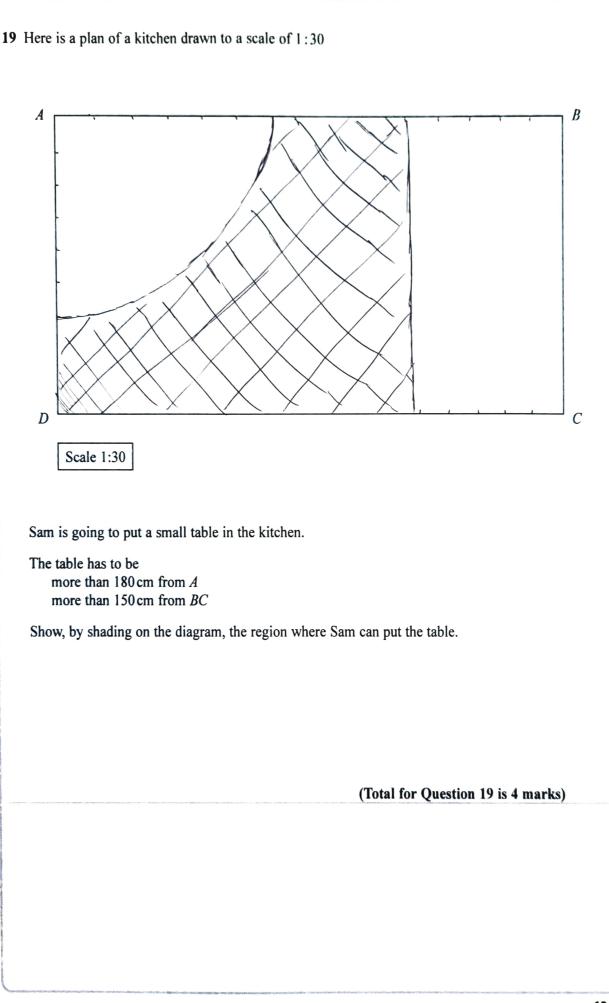
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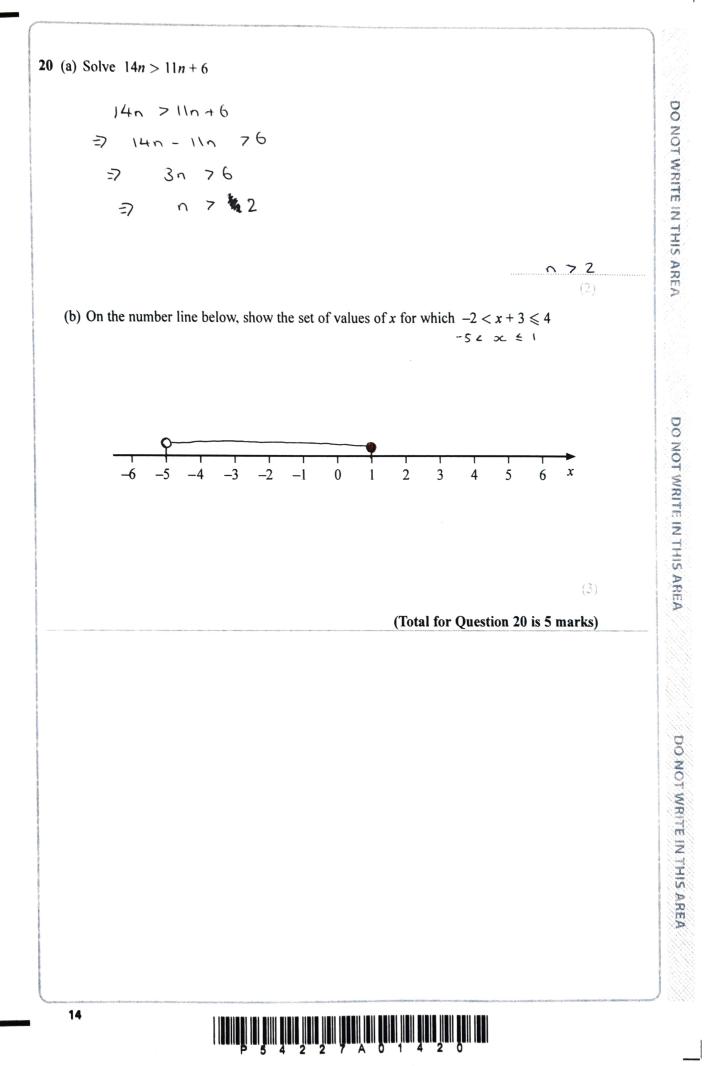
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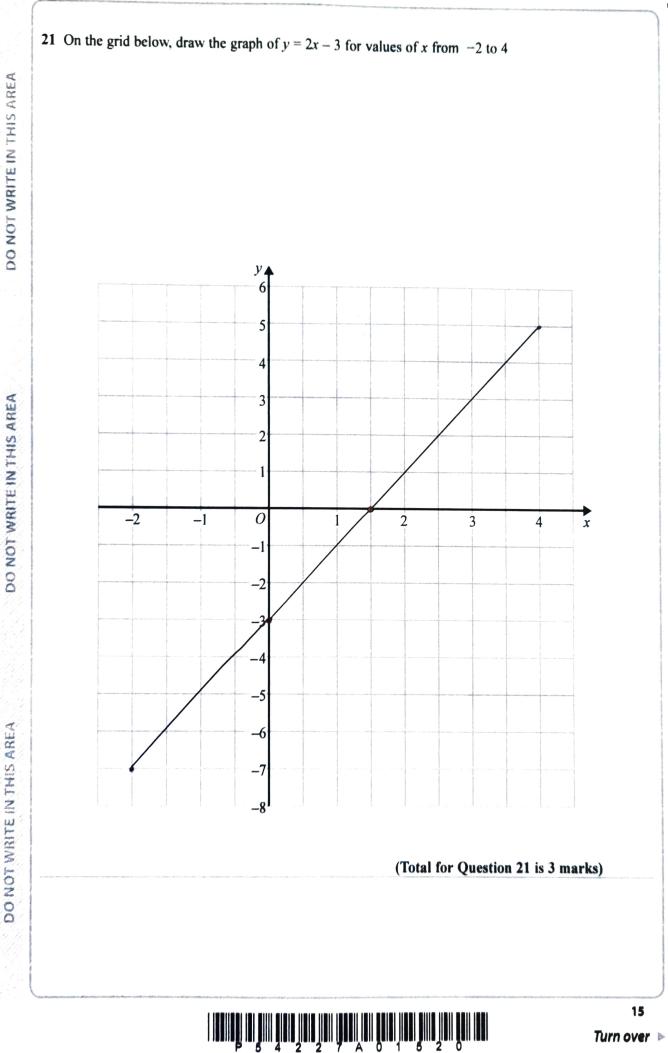
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(Total for Question 18 is 4 marks)



13 Turn over ▷





22 Hannah is planning a day trip for 195 students.

She asks a sample of 30 students where they want to go. Each student chooses one place.

The table shows information about her results.

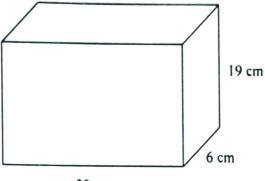
Place	Number of students			
Theme Park	10			
Theatre	5			
Sports Centre	8			
Seaside	7			

(i) Work out how many of the 195 students you think will want to go to the Theme Park.

 $\frac{10}{30} \times 195 = 65$

16

	65
	(2)
(ii) State any assumption you made and explain how this may affect your answe	r.
The sample taken is purely random, if no	y ,
the data is not representative of the p	opulation
(of 195 students).	
	(1)
(Total for Question 22	is 3 marks)





The container is $\frac{2}{3}$ full of water. A cup holds 275 ml of water.

What is the greatest number of cups that can be completely filled with water from the container?

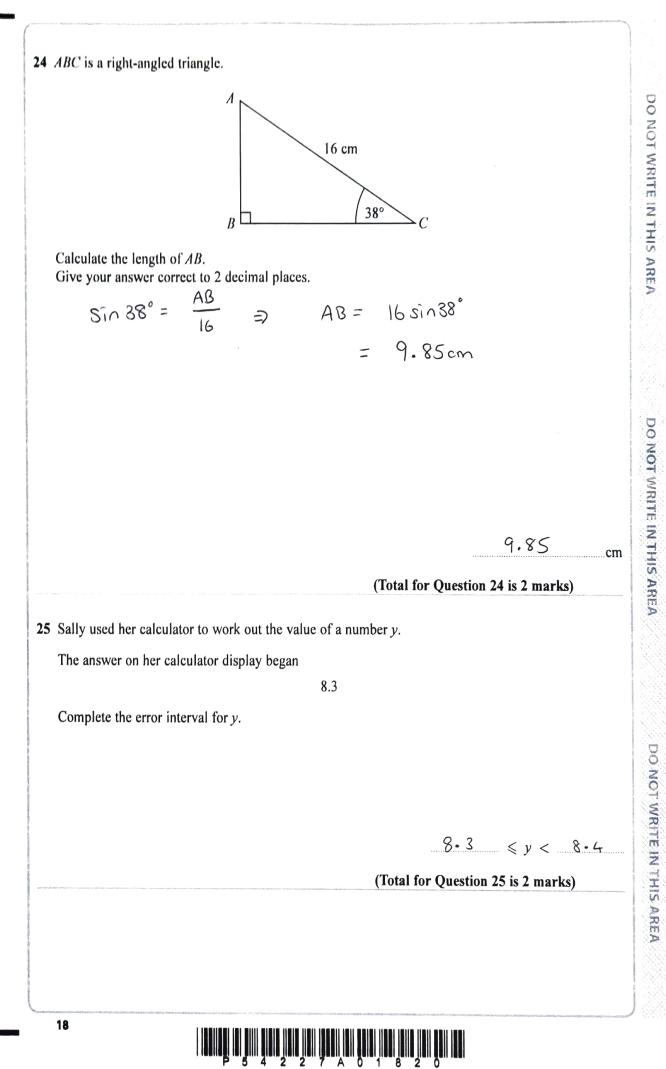
Container volume: 30cm × 6cm × 19cm = 3420 cm², Which holds 3420 mL.

$$\frac{2}{3} \times 3420 \text{ mL} = 2280 \text{ mL},$$
$$\frac{2280 \text{ mL}}{275 \text{ mL}} = 8.290$$
$$= 8.290$$

(Total	for	Question	23 is	4	marks))
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17



26 £360 is shared between Abby, Ben, Chloe and Denesh. The ratio of the amount Abby gets to the amount Ben gets is 2:7 Chloe and Denesh each get 1.5 times the amount Abby gets. Work out the amount of money that Ben gets. C = D = 1.5A. B = 3.5A, A: B: C=D 2:7:3:3 2+7+3+3 = 15 parts Ben: $\frac{7}{15} \times f_{360} = f_{168}$ (Total for Question 26 is 4 marks) 27 (a) Write 0.00562 in standard form. (b) Write 1.452×10^3 as an ordinary number. (Total for Question 27 is 2 marks)



£ 168

 $5-62 \times 10^{-3}$

1452

(1)

(1)

