

GCSE AQA Math 8300

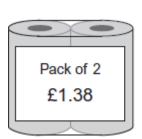
Fractions Decimal & Percentages

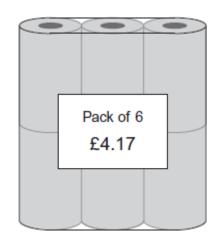
Question Paper

"We will help you to achieve A Star"



Q1.Kitchen rolls are sold in a pack of 2 or a pack of 6





Which pack is the better value for money? You **must** show your working.

Answer	(Total 3 marks)

Q2.Here is some information about tourism in 2012

Country visited	Number of tourists (millions)	Total spent by tourists (\$ millions)
France	83.0	53 600
USA	67.0	126 200
Spain	57.7	55 900

(a)	How many more tourists visited France than Spain?	
	Answer	million



	(b)	21% of the total spent by tourists in the USA was by Canadians.	
		Work out the amount spent by Canadian tourists in the USA.	
		Answer \$ million	(0)
			(2)
	(c)	In the UK the total spent by tourists was \$36 600 million. There were 29.3 million tourists.	
		THEIC WEIG 23.3 Hillion tourists.	
Q3. (a	a) li	ucy thinks people prefer dogs to cats.	
4 0.(а) Ц		
		She asks dog owners, "De you prefer dogs or este?"	
		"Do you prefer dogs or cats?"	
		Is the data likely to be biased? Give a reason for your answer.	
			44
			(1)
	(b)	Sam asks 30 people,	
		"Do you prefer dogs or cats?"	
		One-fifth of the 30 people have no preference.	



Twice as many choose cats as choose dogs.

Complete the table.

	Frequency
Dogs	
Cats	
No preference	
	Total = 30

(3) (Total 4 marks)

Q4.



Bag A



Bag B

Bag A contains £7.20 in 20p coins.

Bag B contains only 5p coins.

The number of coins in bag <i>B</i> is three-quarters of the number of coins in bag <i>A</i> .
How much money is in bag B?

(Total 4 marks)

Answer £



Q5. (a)		o sells red roses and white roses in the ratio 7 : 2 day 392 red roses are sold.	
		How many white roses are sold?	
		Answer	(2)
	(b)	A different shop sells red roses and white roses in the ratio 8:3	
		What is the probability that a rose, sold at random, is red?	
		Answer	(4)
			(1) (Total 3 marks)
Q6.Alice	has £4.	. Billie has twice as much as Alice.	
		has two-thirds of the amount Chris has. amount Chris has is four-fifths of his age in years.	
	How	old is Chris?	
		Answer years	(Total 4 marks)



Q7.A fruit drink is made by mixing juice and lemonade in the ratio

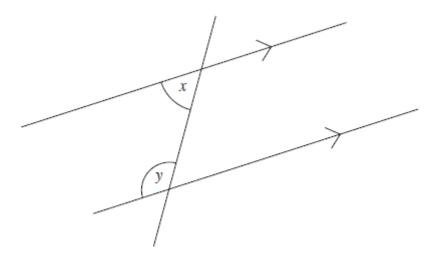
(b)

juice : lemonade = 1 : 4	
Juice costs £6.00 per litre.	
Lemonade costs 50p per litre.	
(a) Show that 1 litre of the fruit drink costs £1.60 to make.	
	. (3)
The fruit drink is sold for £2 a litre.	
Work out the percentage profit.	
Work out the percentage profit.	
Answer %	
	(2) (Total 5 marks)



Q8.

Not drawn accurately



(a)	Use the diagram to write an equation connecting x and y .	
	Answer	

(b) The ratio x: y = 2: 3Use this information to write another equation connecting x and y.

(Total 2 marks)

(1)



Q9. (a))	Put these in order starting with the smallest.	
		$\frac{1}{3}$ -0.3 3.03	
		Answer, ,, ,	(2)
			(2)
	(b)		
		Is she correct?	
	Tie	ick a box.	
		Yes No	
	Sł	how clearly how you decide.	
			(2) (Total 4 marks)
Q10.		7	
	(a)) Write ⁷ / ₁₃ as a recurring decimal.	
		Answer	(1)
	(b)	Circle the fraction that is equivalent to 0.41	
		41 41 37 37	, -
		99 100 99 90) (1) (Total 2 marks)



Q11.

(a)	Show that $\frac{4}{9}$ is equivalent to 0.4	
		(*
(b)	Using part (a), or otherwise, write 0.94 as a fraction.	
	Answer	
	(Total 3 ma	(2) rks)



		Answer		
				(Total 3 m
(a) Comple	ete the table.			
	Fraction	Decimal	Percentage	
	$\frac{3}{4}$		75%	
9	0.9			
	0.3	30%		
	9	Fraction $\frac{3}{4}$ 0.9	(a) Complete the table. Fraction Decimal $\frac{3}{4}$ $\frac{9}{10}$ 0.9	FractionDecimalPercentage $\frac{3}{4}$ 75%

(1) (Total 4 marks)



			1	
Q14.	(a)	(i)	Write 4	as a percentage

Answer	%
	(1

(ii) Write 30% as a decimal.

` ,	Write $\frac{1}{4}$, 30% and 0.2 in order with the sma	

(b) Complete the following.

(i)
$$\frac{2}{3} = 18$$
 (1)

(ii)
$$\frac{15}{4} = \frac{15}{20}$$
 (1)



(c)	Work out $\frac{3}{8}$ as a decimal.		
	Answer	(2) (Total 7 marks)	
Q15.(a	a) Here is a square grid.		
	What percentage of the grid is shaded?		
	Answer %		(1)
	(b) Here is another square grid.		



		Answer .		 		
Shade	<u>1</u> 8	of this squa	re grid.			
					-	