FRACTIONS, DECIMALS AND PERCENTAGES

Pearson Edexcel - Thursday 24 May 2018 - Paper 1 (Non-Calculator) Higher Tier

2.

1 (a) Work out $2\frac{1}{7} + 1\frac{1}{4}$

(b) Work out $1\frac{1}{5} \div \frac{3}{4}$ Give your answer as a mixed number in its simplest form.

(2)

(2)

(Total for Question 1 is 4 marks)

Pearson Edexcel - Monday 9 June 2014 - Paper 1 (Non-Calculator) Higher Tier

1 (a) Work out
$$\frac{1}{7} \times \frac{2}{3}$$

(b) Work out
$$\frac{3}{5} - \frac{1}{3}$$

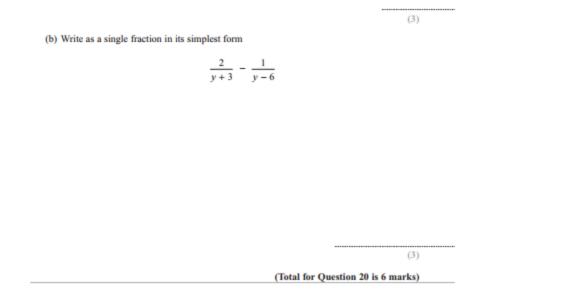
(1)

(2)

(Total for Question 1 is 3 marks)

Pearson Edexcel - Wednesday 6 November 2013 - Paper 1 (Non-Calculator) Higher Tier

20 (a) Solve
$$\frac{4(8x-2)}{3x} = 10$$



Pearson Edexcel - Monday 11 June 2012 - Paper 1 (Non-Calculator) Higher Tier

6.

24 Express the recurring decimal 0.281 as a fraction in its simplest form.

(Total for Question 24 is 3 marks)

Pearson Edexcel - Wednesday 9 November 2011 - Paper 3 (Non-Calculator) Higher Tier

7.

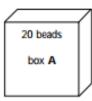
- Theo earns £20 one weekend. He gives £4 to his brother.
 - (a) Express £4 as a fraction of £20 Give your answer in its simplest form.

	(2)
Theo gives £6 to his mother.	
(b) Express £6 as a percentage of £20	
	%
	(2)
Theo spent the remaining £10 on bus fares and food. He spent £1.50 more on bus fares than on food.	
(c) How much did he spend on bus fares?	
Neder Landerskalan ing annan ang ang ang ang ang ang ang ang	
	£
	(2)

			(2)
C	otal	6 m	arks)

Pearson Edexcel - Friday 12 November 2010 - Paper 4 (Calculator) Higher Tier

3. There are 20 beads in box A.



In box B there are twice as many beads as in box A.



In box C there are $\frac{3}{4}$ of the number of beads as in box A.



In box D there are 10% more beads than in box A.



Work out the total number of beads in the four boxes.

..... beads (Total 4 marks)

Pearson Edexcel - Thursday 5 November 2009 - Paper 3 (Non-Calculator) Higher Tier

1. Using the information that

-

	74 × 234 = 17316	
write down the value of		
(a) 740 × 234		
		(1)
(b) 74 × 2.34		
		(1)
		(Total 2 marks)

OCR GSCE – Thursday 7 November 2019 – Paper 5 (Non-Calculator) Higher Tier

•

10.

10 On a plane, $\frac{2}{5}$ of the passengers were British.

30% of the British passengers were men. There were 36 British men on the plane.

Find the total number of passengers on the plane.

.....[5]

(b)[3]

OCR GSCE – Thursday 6 June 2019 – Paper 5 (Non-Calculator) Higher Tier

12.

10 (a) Write $\frac{1}{6}$ as a recurring decimal.

(a)[2]

(b) Elsa divides a two-digit number by another two-digit number. She gets the answer 0.15.

She says that there is only one possible pair of numbers that will give this answer. Is she correct? Show how you decide.

OCR GSCE – Monday 12 November 2018 – Paper 6 (Calculator) Higher Tier 13.

14 (a) Without using a calculator, show that $0.\dot{19}$ can be written as $\frac{19}{99}$. [3]

(b) Explain how $\frac{19}{99} = 0.\dot{1}\dot{9}$ can be used to find $\frac{19}{990}$ as a decimal and write down its value.

 <u>19</u> 990 = [2]

OCR GSCE – Thursday 7 June 2018 – Paper 5 (Non - Calculator) Higher Tier

14.

13 (a) Write $\frac{5}{12}$ as a recurring decimal.

(b) Convert 0.76 to a fraction.

(a)[2]

(b)[2]

OCR GSCE – Tuesday 6 November 2017 – Paper 5 (Non - Calculator) Higher Tier 15.

12 (a) Write $\frac{5}{6}$ as a recurring decimal.

(a)[2]

(b) Convert 0.126 to a fraction. Give your answer in its lowest terms.

(b)[3]

OCR GSCE - Thursday 8 June 2017 - Paper 5 (Non - Calculator) Higher Tier

-

16.

1 Work out
$$\frac{2}{15} \times \frac{15}{22}$$
.

Give your answer in its lowest terms.

.....[2]

OCR GSCE - Thursday 8 June 2017 - Paper 5 (Non - Calculator) Higher Tier

17.

13 (a) Write $\frac{7}{9}$ as a recurring decimal.

(a)[1]

(b) Sally divided a two-digit number by another two-digit number. Her answer was 3.18181818.......

Find two numbers that Sally could have used.

(b)[3]

OCR GSCE – Sample Papers – Paper 6 (Calculator) Higher Tier

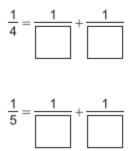
18.

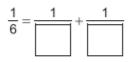
15 A unit fraction has a numerator equal to 1, for example $\frac{1}{3}$, $\frac{1}{7}$ and $\frac{1}{25}$.

Unit fractions can be written as the sum of two different unit fractions, for example

$$\frac{1}{2} = \frac{1}{3} + \frac{1}{6}$$

Write each of the following unit fractions as the sum of two different unit fractions.





[3]

OCR GSCE	OCR GSCE – Tuesday 13 June 2017 – Paper 6 (Calculator) Higher Tier					
19.						
1	Circle the frac	tion that is equivale	ent to 4.75			[1 mark]
		<u>15</u> 4	<u>19</u>	$\frac{21}{4}$	$\frac{23}{4}$	
		4	4	4	4	
AQA GSCE	– Tuesday 19 M	lay 2020 – Paper 1	(Non - Calculator) H	ligher Tier		
20.						
4	Circle the reci	procal of $\frac{5}{6}$				[1 mark]
		<u>6</u> 5	<u>1</u> 6	$-\frac{1}{6}$	$-\frac{6}{5}$	
		5	0	0	5	
AQA GSCE	– Tuesday 19 M	lay 2020 – Paper 1	(Non - Calculator) H	ligher Tier		
21.						
11	As a decimal	$\frac{11}{40} = 0.275$				

Work out $\frac{33}{400}$ as a decimal.

[2 marks]

Answer

AQA GSCE – Tuesday 19 May 2020 – Paper 1 (Non - Calculator) Higher Tier

19	Circle the expression that is equiv	valent to $\frac{x}{5}$	$\frac{x}{5} + \frac{x}{10}$	I	[1 mark]
	$\frac{3x}{10}$	$\frac{2x}{15}$	$\frac{x}{25}$	$\frac{x^2}{50}$	

AQA GSCE – Thursday 8 June 2020 – Paper 3 (Calculator) Higher Tier

13	(a)	Simplify $\frac{25a}{8} \times \frac{2a}{5}$		
		Give your answer as a sin	gle fraction in its simplest form.	[2 marks]
		Answer		
13	(b)	Sofia is trying to simplify	$\frac{6c+10}{2}$	
		Her method is divide 6 <i>c</i> by 2		
		then add 10		
		Evaluate her method.		[1 mark]

AQA GSCE	– Tuesday 11 Ju	ne 2019 – Paper	⁻ 3 (Calculator)	Higher Tier		
24.						
1	Work out £1.50 Circle your ans) as a fraction o swer.	of 60p			[1 mark]
		2 5	$\frac{1}{4}$	<u>4</u> 1	<u>5</u> 2	
AQA GSCE	– Tuesday 6 Nov	vember 2018 – F	Paper 1 (Non - (Calculator) Higher Ti	er	
25.						
5	Work out	$8\frac{1}{2} \div 2\frac{2}{3}$				
	Give your answ	wer as a mixed i	number.		[4	l marks]
		Answer				

AQA GSCE 26.	– Monday 12 Nove	mber 2018 – Pap	er 3 (Calculator) H	igher Tier		
2	What is 1.75 kilom	netres as a fraction	on of 700 metres?			
	Circle your answe	r.				[1 mark]
	<u>5</u> 2		<u>1</u> 4	$\frac{4}{1}$	2 5	
AQA GSCE 27.	– Monday 24 May 2	2018 – Paper 1 (N	lon - Calculator) H	igher Tier		
6	The height of Zak The height of Free					
	Write the height of		-	Fred.		
	Give your answer	in its simplest fo	rm.			[3 marks]
		Answer				

AQA GSCE – Monday 24 May 2018 – Paper 1 (Non - Calculator) Higher Tier

28.

23 A shopkeeper compares the income from sales of a laptop in March and April.

 April

 Price
 $\frac{1}{5}$ more than March

 Number sold
 $\frac{1}{4}$ less than March

By what fraction does the income from these sales decrease in April?

[3 marks]

Answer

AQA GSCE 29.	– Tuesday 12 June 2018 – F	Paper 3 (Calculator)) Higher Tier		
1	Circle the decimal that is	closest in value to	<u>11</u> 20	[1 mark	(]
	0.56	0.6	0.525	0.5	
AQA GSCE 30.	– Thursday 6 November 20	17 – Paper 2 (Calcı	ılator) Higher Tier		
1	Circle the fraction that is e	equivalent to 3.875	i	[1 marl	k]
	<u>15</u> 4	<u>29</u> 8	<u>31</u> 8	<u>15</u> 8	
	– Wednesday 25 May 2017	' – Paper 1 (Non - C	alculator) Higher Tie	r	
31.					
7	$\frac{3}{5}$ of a number is 162				
	Work out the number.			[2 marks]	
	An	swer			

AQA GSCE – Wednesday 25 May 2017 – Paper 1 (Non - Calculator) Higher Tier 32.							
15	$\frac{1}{6}, \frac{1}{7}, \frac{1}{8}$ and	$\frac{1}{9}$ are four fractional fraction of the four	actions.				
	How many of Circle your ar	these fractions	s convert to a r	ecurring de	cimal?		
						[1 m	ark]
		0	1	2	3	4	
AQA GSC	E – Thursday 8	June 2017 – P	aper 2 (Calcul	ator) Highe	er Tier		
1	Circle the de	ecimal that is o	closest in valu	te to $\frac{39}{800}$			[1 mark]
		0.04	0.048		0.049	0.05	

AQA GSCE – Sample Paper 1 (Non - Calculator) Higher Tier

7	Work out $2\frac{3}{4} \times 1\frac{5}{7}$	
	Give your answer as a mixed number in its simplest form.	[3 marks]
	Answer	

AQA GS	SCE – Sample Paper 1 (Non - Calculator) Higher Tier	
35.		
27	Convert 0.172 to a fraction in its lowest terms.	[3 marks]
	Answer	
AQA G: 36.	SCE – Sample Paper 2 (Calculator) Higher Tier	
5	In a sale, the original price of a bag was reduced by $\frac{1}{5}$ The sale price of the bag is £29.40	
	Work out the original price.	[3 marks]
	Answer £	