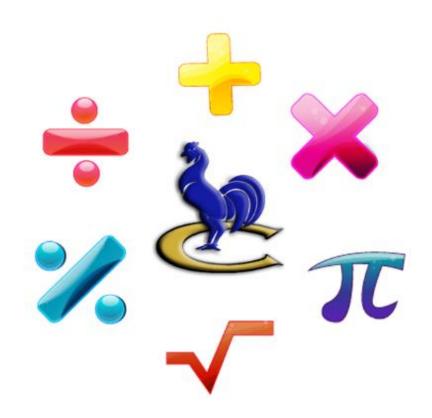
Key Stage 4

Foundation Number Revision



Name:

Teacher:

Maths Non-Calculator

		Ni-rate and	
	(c)	Mair thought of two whole numbers. When she multiplied them together, the answer was 20. When she added them together, the answer was 9. What are the two numbers that Mair thought of?	[2
		Answer: pence	
	(b)	Calculate £7.20 divided by 9. Write your answer in pence.	[2
1.	(a)	Write the number fifty thousand and four in figures.	[1]
		The factors of 27 are	
	(c)	Write down all the factors of 27.	[2]
	(b)	Subtract 532 from 700.	[1]
1.	(a)	Add 3874 and 649.	[1]

(i) 397 + 4	405 =			[1]
(ii)	+	274 = 419		[1]
(iii) 11 ×		= 220		[1]
	umbers in order		smallest.	[1]

largest

(a) Write a number in each box so that each calculation is correct.

2.

(b)

smallest

3.	(a)	Kate thought of a number. She multiplied her number by 9 and got the answer 54.								
		What number did Kate think of?								
	(b)	Write a positive whole number in each empty box to make this statement true.								
		× 8 + = 21								
			<u>.</u>							
			······································							
5.	(a)	Write 481·627 correct to 2 decimal places.								
	(b)	Write down the value of 8 ² .								
	(c)	Write down the value of $\sqrt{49}$.								
	(d)	Work out 38·25 ÷ 1000.	[1]							

6.	(a)	Write one of the numbers 3, 5, 7, 9 in each box. Each number may be used only once. The sum of the numbers in the column must equal the sum of the numbers in the row. [1]
		10
		Space for working:
	(b)	Write a different multiple of 4 in each box to make this sum correct. [2]
		+ = 40
		Space for working:

 How many complete rows of chairs must the caretaker put out so that each student cast on a chair? 						
How many empty chairs will there be?	[5]					
Number of complete rows of chairs =						
Number of empty chairs =						

There are 204 students at Ysgol Bryn.
The caretaker always puts 15 chairs in each row in the school hall.

8.	Usin	g only the 57	numbers 58	in the fo	llowing I	ist, 61	62	63	64	65	
	write	down									
		a prime	number,								[1]
	(b)	a cube r									[1]
	(c)	a factor	of 186,								[1]
	(d)	a multipl	le of 7·25.								[1]
8.	(a)	Write do	wn the va	alue of 9 ²							[1]
	(b)	Work ou	it 1·2 × 70								[1]

CALCULATION		
23 - (4 + 2) × 3 = 5	TRUE	FALSE
$\frac{7}{10} + \frac{2}{5} = \frac{9}{15}$	TRUE	FALSE
$\frac{1}{2}$ of $\frac{1}{8} = \frac{1}{4}$	TRUE	FALSE
25% of 0·4 = 0·1	TRUE	FALSE
$28 - 3 \times 2 + 5 = 55$	TRUE	FALSE

Space for working:		

8. Match each expression with its value.

The first one has been done for you.

11

[4]

50% of 22 2

 $\frac{1}{5}$ of 90

4² 16

√100 18

25% of 80 45

Space for working:

20

11. Complete each row of the following table. The first row has been completed for you.

Place	Temperature at 10 a.m.	Change	Temperature at 6 p.m.
Cwmbran	2°C	Down 4°C	-2°C
Llanelli	-3°C	Down 1°C	
Llanidloes	−4°C		−1°C
Porthmadog		Up 4°C	3°C

12.	Write	7%,	$\frac{3}{5}$	and	0.3	in	ascending	order
-----	-------	-----	---------------	-----	-----	----	-----------	-------

You must show all your working.	[3]
Smallest value —————— Greatest value	

(a)	0·4 × 0·7	[1
	13·8 – 7·45	
<u></u>	3 ³ - 2 ⁴	[2
(d)	$\frac{9}{10} - \frac{3}{5}$	[2
	e down 0·4, 15% and $\frac{t}{20}$ in ascending order. must show all your working.	[3
		eatest value

12. Calculate each of the following.

Show	7 + 7 - 3 = 11. how you can get each of the following answers.	
(a)	2]
	Write your solution in the box below.	
	= 2	
(b)	8	
	Write your solution in the box below.	
	= 8	
(c)	19	
	Write your colution in the boy below	
	Write your solution in the box below.	

12. In this question, you must use only the numbers 3 and 7 to make other numbers.

20% of 70 is the same as 70% of 20.	TRUE	FALSE
$\frac{1}{2}$ of $\frac{1}{8}$ is the same as $\frac{1}{8}$ of $\frac{1}{2}$	TRUE	FALSE
A number is halved. The answer is halved, and then this answer is halved again. This gives the same answer as dividing the original number by 6.	TRUE	FALSE
Dividing a number by 15 is the same as first dividing by 10 and then dividing the answer by 5.	TRUE	FALSE
Multiplying a number by 2.5 is the same as first multiplying by 10 and then dividing the answer by 4.	TRUE	FALSE

Space for working:	

The number is a multiple of 4 but not a multiple of 8.
3 is a factor of this number.
The number is a square number. [3]
The whole number is

17. Find the whole number which satisfies all of the following conditions:

• It is a whole number between 1 and 40 inclusive.

18. Two types of number are added or multiplied together. Complete the table below to show whether the answer will be odd or even. One answer has been filled in for you.

Calculation:	Answer will be:
even number + even number	even
even number + odd number	
odd number + odd number	
even number × even number	
even number × odd number	
odd number × odd number	

10	(0)	Estimate the value of	41.3×29.6
10.	(a)	Estimate the value of	198.7

	You must show	all your working.		[2]
• • • • • • • • • • • • • • • • • • • •			 	
•			 	

(b) Given that $54 \times 84.2 = 4546.8$, write down the exact value of each of the following.

Maths Calculator

1.	(a)	Fill in the boxes below to make each calculation correct.
----	-----	---

8 × £0.45 = £.....

[4]

6 × £ = £6.30

..... × 65p = £7.80

£3.60 ÷ = 36p

1.	Fill in the	boxes	below to	make	each	calculation	correct.

9p + £4.58 = £

Space for working:

1.	Fill in	the	missing	numbers	in t	he	calculations	helow
	1 111 111	uic	HIIOSHIY	HUHHDEIS	III L	110	Calculations	DCIOW.

245	+		=	1023
	_	263	=	642
46	×		=	1610
	÷	15	_	43

2. Use either the symbol < or > to make each statement true.

3	 12
4	-3
	 _5
0.25	 0.5
-20	 –15

[2]

[4]

1.	Comp	lete the calculations belo	W.				[4]
		975	×	74	=		
		834	×		=	43 368	
			÷	43	=	1376	
		5056	÷		=	32	
	Space	e for working:					···········
							······································
2.		Write down the first 5 mm					[1]
	(b) A number has exactly four factors. Its factors are 1, 3, 11 and the number itself. What is the number?						[1]

	lotte writes down 3 sum of the 3 factor			than 15.			
What 3 factors could Charlotte have written down? You must show how you worked out your answer. [3 +							
•••••							
(a)	Write down the first 3 multiples of 47.						
(b)	One of the numbers below is a factor of 676.						
(<i>D</i>)	Circle the correc	t number.	actor or 676.			[1	
	22	32	42	52	62		
(c)	When one of the numbers below is divided by 22, there is a remainder of 11. Circle the correct number.						
			040	044	040	[1	
	208	209	210	211	212		

Use one of the	symbols < , > or = to	make each of the	following statements	s correct.
	6 + 48		8	
	6 – 48		8	
	6 × 48		8	
	6 ÷ 48		8	
Space for work	ing:			

4.	 Matthew writes down three different numbers. One number is a square number. The other two numbers are factors of 20. The sum of the three numbers is 24. 					
	What	t three numbers did Matthew write down?	[3]			
		Matthew's three numbers are, and				
5.	(a)	Bethan writes down two square numbers.				
		She adds her two numbers together. Her answer is a square number less than 30. Which two square numbers did Bethan write down?	[2]			
		Bethan's square numbers are and and				
	(b)	Harri adds three even numbers together and gets an answer of 23.				
		Explain how you know that Harri's answer is incorrect.	[1]			
						

Complete the table below so that each row will show equivalent fractions, decimals and percentages. [4]

The first row has been completed for you.

Fraction	Decimal	Percentage
1/2	0⋅5	50%
<u>1</u> 10		%
<u></u> 25		8%

6.	(a)	Calculate $3 + 5.4^2$.	[1]

(b) Calculate
$$\frac{\sqrt{2.56}}{4}$$
. [1]

6. (a) Find the value of $\frac{235 \times 20^2}{17}$ Write your answer correct to the nearest 10. [2]

(b) Find the value of $\sqrt{56-37}+28$.

Write your answer correct to 2 decimal places. [2]

7.	(a)	What percentage of the following shape is shaded?							
	•••••						······································		
	•••••				%		······································		
	(b)	Var. and sixta	the value of 25%						
	(b)		[1]						
	(c) Explain how you know that $\frac{1}{8}$ is greater than $\frac{1}{10}$.								
							······································		
8.	Eira l	believes that 4 n	ninutes 48 seco	nds is less than	half of 9 minute	es 18 seconds.			
		a correct? must show all yo	our working.				[2]		
							······································		
							······································		

10.	(a)	Fati The	ima writes down three square numbers. e total of the square numbers is 30.	
		Whi	ich square numbers did Fatima write down?	[3]
				······································
				······································
				······································
		The	e numbers which Fatima wrote are,, andand	
	(b)	(i)	Find the total of £7.30, £15.60 and 87p.	[1]
	(~)			
		•		······································
			Write this total correct to the pearest £1	
		(ii)	Write this total correct to the nearest £1.	[1]
		(iii)	Write this total correct to the nearest £10.	[1]

11.	Calc	Calculate each of the following.					
11.	(a)	$4.8^2 + \sqrt{28.09}$	[2]				
		4/9 of 78·3	[1]				
		Calculate $12\frac{1}{2}\%$ of 1176.	[2]				
	(b)	Evaluate $\frac{4\cdot3\times8\cdot6}{9\cdot3-1\cdot4}$. Give your answer correct to 1 decimal place.	[2]				

12.	(a)	Calculate 39 ^o	% of £576.				[2]
	(b)	Calculate $\frac{3}{7}$ of Give your an	of 100. swer correct to t	he nearest whol	e number.		[2]
	(c)	How many qu	uarters are there	in 10?			[1]
	(d)	What fractio	n is equal to 50%	% of ¹ / ₆ ?			[1]
	(e)	Circle the fra	ction that is a re	curring decimal.			[1]
		<u>21</u> 35	<u>10</u> 12	<u>17</u> 68	<u>15</u> 24	<u>51</u> 170	
	•						······································

13.	Fill in the boxes so that the	e following addition is correct.	[3]
		1 9 7 8	+
		4 1	_
	Space for working:		
13.		e following statement is true or false.	[4] use that new value by 10% you
	get back to your origina	ve number by 10% and then decred Il number.'	
	•••••		

Calculate	the	answer	when,	
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'the largest prime number that is a factor of 28'	
is multiplied by	
'the smallest prime number that is factor of 15'.	[2]
	······································
	······································

15. Complete each row of the following table. The first row has been done for you.

[3]

Place	Temperature at midday	Change	Temperature at following midday
Holyhead	−1°C	Up 3°C	2°C
Dolgellau	-3°C		1°C
Cardigan	2°C	Down 3°C	
Newport		Up 2°C	-2°C

$\frac{2}{5}$ of this time is spent on planning.	
How long was spent on the rest of the task ? Give your answer in hours and minutes.	
You must show all your working.	[5]

15. A task takes 6 hours 15 minutes to complete.

15.	18% of £256 is shared in the ratio 2 : 1. Calculate the value of the larger share. Give your answer to the nearest 10p.	
	You must show all your working. [5	5]
		.
		.
		.
		.

16. A coach company runs trips to Llandudno and Aberystwyth. The information kept by the company about the passengers on these trips includes:

- the destination of the trip,
 their ages.

The table below shows the number of passengers who went to Llandudno or Aberystwyth last Tuesday.

	Llandudno	Aberystwyth
Passengers 60 years old and over	323	217
Passengers under 60 years old	122	58

(a)	What was the ratio of passengers 60 years old and over to passengers under 60 years old?	ars
	Give your answer in its simplest form.	[3]
		.
		····· •
		· · · · · ·
	Passengers 60 years old and over : passengers under 60 years old	
	=	