# 7C Half Term Assessment 1

The assessment will last a total of 40 minutes.

You will be given 10 minutes to work on Section A ONLY using a calculator.

You will then have 30 minutes in which to complete the rest of the paper. During this time you must NOT use a calculator but you may work on both Sections A and B.

### Section A: You may use a calculator for these questions.

1	Work out each of the following:		
(a)	21.8 – 7.39		
(b)	$2.4 \times 3.2 - 2.87$		
(c)	<u>6.624</u> <u>1.84</u>		
(d)	$\frac{17.5+3.62}{0.62+4.18}$		ſ
		(4 mar	rks)

<b>2 (a)</b> What is the area of the rectangle to the right?	4.35 cm		
		8.9 cm	
<b>(b)</b> What is its perimeter?			(1 mark)
			(1 mark)

3 The numbersin the two circles add up to the number in the square between them. Use this rule to complete the diagram below.



**4** Two consecutive numbers have a sum of 43. What are they?(Consecutive numbers are numbers that follow on from each other e.g. 3 and 4, 78 and 79).

### .....

(1 mark)

#### Section B: You must not use a calculator for these questions.



6	Work out the following. Show	your working as necessary.	
(a)	$7 \times 6 =$		
			(1 mark)
(b)	32 ÷ 8 =		(That)
			(1 mark)
(c)	$27 - 5 \times 4 =$		(1.1.2.1.)
(d)	$45 \div 9 + 8 =$		
			(1 mark)
(e)	$3 \times 4 + 49 \div 7 =$		
			l
			(2 marks)
7	Find the next term in each of t	he following sequences:	

(a) 50, 44, 38, 32,	(1 mark)
<b>(b)</b> 5, 8, 11, 14,	(1 mark)
(c) 2, 6, 18, 54,	(1 mark)
8 The grids in this question are <b>centimetre square</b> grids.	
(a) What is the area of this shaded rectangle?	Not to scale
(b) What is the area of this shaded triangle?	
(c) What is the area of this shaded shape?	
	(3 marks)

## Work out each of the following:

(a) two hundred and sixteen add five hundred and sixty eight	(2
	(2 marks)
<b>(b)</b> 29 + 342 + 5067	
	(2 marks)
(c) 1901 – 820	
	(2 marks)
(d) $27 \times 43$	(2 marks)
<b>(e)</b> 252 ÷ 7	(2 mortes)
	(z marks)
<b>10</b> The rule for the number sequences below is double and add 3'.	





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# 7C Half Term Assessment 2

The assessment will last a total of 40 minutes.

You will be given 10 minutes to work on Section A ONLY using a calculator. You will then have 30 minutes in which to complete the rest of the paper. During this time you must NOT use a calculator but you may work on both Sections A and B.

#### Section A: You may use a calculator for these questions.



2 (	a)Find the <i>i</i>	mean of	the nur	mbers		
6	11 3	14	11	8	5	10.
<b>(b)</b> The	Here are e <i>mean</i> is 7. What is th	four nun ne missir	nber ca ng num	rds. ber?		(2 marks)
						(1 mark)

Sect	n B: You must not use a calculator for these questions.	
3 (a	Write a fraction that is less than 1 but greater than $\frac{1}{2}$ .	
		(1 mark)
(b	Simplify these fractions as far as possible	
1		
i) <u>1</u>		
ii) <u>3</u>		
47	(	2 marks)



<b>5 (a)</b> Work out $\frac{1}{4}$ of £20	
<b>(b)</b> Work out $\frac{1}{7}$ of £63	(1 mark)

6	Simplify the following expressions where possible. If you cannot simplify, write down the expression given.
(a	5x-2x
(b	) $9m + 3m$ (1 mark)
(c	(1 mark) $4a + 2b$
(d	) $18t - 7t$ (1 mark)
	(1 mark)

7 (a) Convert these fractions into decimals.	
i) $\frac{1}{4}$	
	(1 mark)
ii) $\frac{11}{25}$	
	(1 mark)
(b) Convert these decimals to percentages.	
i) 0.52	
	(d. 1997)
<b>ii)</b> 0.6	(1 mark)
	(1 mark)

8 Two girls record their scores from a weekly spelling test. below.				t. Their results are shown in the tab					
	Chloe	Q	10	0	7	0	10	6	
		<u> </u>	12	9	7 8	9	10	7	
	Lucie	0	12	0	0	0	11	1	
<b>(a)</b> Work out th	e median f	or Chlo	9.						
<b>(b)</b> Work out th	e range foi	r Chloe.							(2 marks)
									(1 mark)
The median fo (c)Compare th	or Lucieis 8 ne scores o	and he f Chloe	r range is and Luci	s 6. e by con	npleting t	hese ser	ntences.		
The medians s	show that .								
The ranges sh	iow that								
									(2 marks)





Total 40

# 7C Half Term Assessment 3

The assessment will last a total of 40 minutes.

You will be given 10 minutes to work on Section A ONLY using a calculator.

You will then have 30 minutes in which to complete the rest of the paper. During this time you must NOT use a calculator but you may work on both Sections A and B.

### Section A: You may use a calculator for these questions.

**1** There are 15 players in a rugby team and there are 207 boys in year 7 of a school.

- (a) How many teams of 15 can be formed?
- How many boys will be left over? (b)

(2 marks)

(1 mark)

**2** For the line y = x + 13, find the y value when:

x = 10(a)

(1 mark)

x = 22(b)

(1 mark)

<b>3</b> £40 can be exchanged for 74 dollars. How many dollars can be exchanged for £160?

(2 marks)

4 Lorna did a survey on how pupils get to school. The pie chart shows her results. (It can be assumed that the marks on the edge split the circle into even pieces).	
(a) What fraction of the pupils walk to school?	
(1 mark)	
(b) 420 pupils take part in the survey. How many pupils walk to school?	
(2 marks)	
Section D. You must not use a coloulator for these questions	
Section B: You must not use a calculator for these questions.	
5 (a)Write down the first five multiples of 5.	
(b) Write down all the factors of 20.	
(2 marks)	
Look at this list of numbers 4, 15, 7, 36, 21	
(c) Write down a <b>prime</b> number from the list?	
(1 mark) (1 mark)	

. . .

(1 mark)



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8 Complete the following:

260 \div \boxed{} = 2.6
(1 mark)
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(b)	9.3 – 5.67(2 marks)												
-													

<b>10</b> S	ippose you roll an ordinary die with sidesnumbered 1, 2, 3, 4, 5, 6.
F	nd the probability that you will roll
(a)	a 6
( )	
	(1 mark)
(b)	a number less than 3
(a)	(1 mark)
(C)	a /
	(1 mark)

**11** A class of 30 year 7 pupils had a history test. Their marks are given below.

12	20	32	8	25	15	30	17	21	31
6	22	18	26	17	12	9	32	22	25
17	5	20	32	31	28	27	13	28	17

(a) Complete the frequency table below.

Mark	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		
	1	© OCF





<b>13</b> W	13Work out each of the following:																	
(a)	1.56	× 7(2	marks	)														
				1	1	I	1		1	1	1	I	I	I	1	<u> </u>	1	
(b)	6.7 -	÷ 4(2 n	narks)															

Total 40

# 7C Half Term Assessment 4

The assessment will last a total of 40 minutes.

You will be given 10 minutes to work on Section A ONLY using a calculator.

You will then have 30 minutes in which to complete the rest of the paper. During this time you must NOT use a calculator but you may work on both Sections A and B.

### Section A: You may use a calculator for these questions.

1 A car travels 36 miles on 4 litres of petrol. How far will it travel on 12 litres of petrol?



**3** Given that x = 3y + 2z, find the value of x when y = 12 and z = 7.

(2 marks)

**4** As a decimal  $\frac{3}{8}$  is 0.375. What is  $\frac{7}{8}$  as a decimal?

## Section B: You must not use a calculator for these questions.



6	Arrange these temperatures in order of size, coldest first.						
	5°C, -3°C, -15°C, 8°C, 0°C						
	(1 mark)						

7 Using the rectangle WXYZ, answer the follo	7 Using the rectangle WXYZ, answer the following questions.				
(a) Name a side parallel to WZ.					
(1 mark) (b) Name a horizontal side.	W	X			
(1 mark) (c)Name a side perpendicular to WZ.	Z	Y			
(1 mark)					
8 One day the temperature is 7°C. That night the temperature is -3°C. What is the difference between the day and night temperatures?					

(1	mark)	

9 S (a)	solve the equations below. x + 6 = 15	
(b)	6x = 18	(1 mark)
(c)	$\frac{x}{8} = 7$	(1 mark)
		(1 mark)

10Shade in this diagram so that the ratio of shaded to white squares is 1:3.



13 There are 18 boys and 15 girls in a class. Write down the ratio of boys to girls in the class. Give you answer in its simplest form.

(2 marks)

