## Wigan LEA Numeracy Centre Year 5 Block 3 Assessment

# 5

## Section A - Read and Respond

Name:	Date:

Key Objectives Assessed	Question
Ordering positive and negative integers	1
Relate fractions to their equivalent decimals	6
Calculate differences mentally	11, 12
Recognise parallel and perpendicular lines	8
Calculate the area of a rectangle	10
Know by heart multiplication up to 10 x 10	4
Other Objectives Assessed	
Derive doubles of multiples of 100 and 100 up to 10,000	2
Relate fractions to division	3, 5
Find simple percentages of small whole number quantities	7
Use a protractor to measure angles to the nearest 5°	9
Calculate a temperature fall across 0°C	1
Recognise and extend number sequences from any number in steps of constant size	13

Correct Responses	<u>Mark</u>
	11. 16.

Overall level for Block 3 A & B

### Block 3 Assessment

Section A

1.

Look at the table showing temperatures of British towns in February.

Town	Temperature
Aberdeen	-5°C
Glasgow	-6°C
Kendal	-3°C
London	4°C
Manchester	2°C
Wigan	-1°C

- a. Which **town** had the highest temperature?
- b. Which **town** had the lowest temperature?
- c. What is the difference in temperature between London and Glasgow? \_\_\_\_\_
- d. Which **two towns** have a difference of 4°C?

1	2	1
l	J	,

2.

Complete these doubling and halving sentences

d. 
$$2 x$$
 =  $6800$ 

e.	2 x 4900 =	
----	------------	--

(2)

3.

Complete these number sentences. Write your answer as a fraction.

e.g. 
$$21 \div 10 = 2\frac{1}{10}$$

a. 
$$21 \div 4 =$$

b. 
$$8 \div 3 = \boxed{}$$

d. 
$$27 \div \boxed{\phantom{0}} = 6\frac{3}{4}$$

e. 
$$\div 7 = 5\frac{1}{7}$$

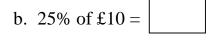
(3)

4	Complete this multiplication table								
4.		X	4	6	7	8	9		
		2	8	12	14	16	18		
		6							
		7							
		8							
		9							(3)
		<u> </u>		ata thi	s fract	ion ori	A		$\neg$
5.			ompi	lete till	s maci	ion gn	u.	T 1	
	Start Number	24		48	72		96	144	
	To find \(\frac{1}{3}\) (divide by 3)	8			24			48	
	To find $\frac{1}{6}$ (half of $\frac{1}{3}$ )	4		8					(3)
						·			(3)
6	The table				nbers a			t fractions.	
6.	Г	ecimals					t Fracti	ons	
		0.7			Lqu	1 1 41011	t I Iacti		
		0.03							
						<u>.</u> 2	<u>3</u> 4		
				1		10			

1.48

(2)

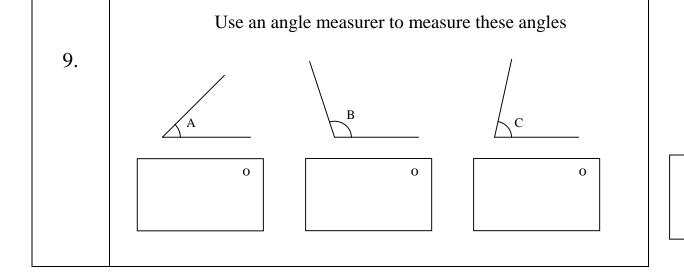
7.	a. 50% of £7 =
	c. 10% of £30 =
	e 75% of f20 -



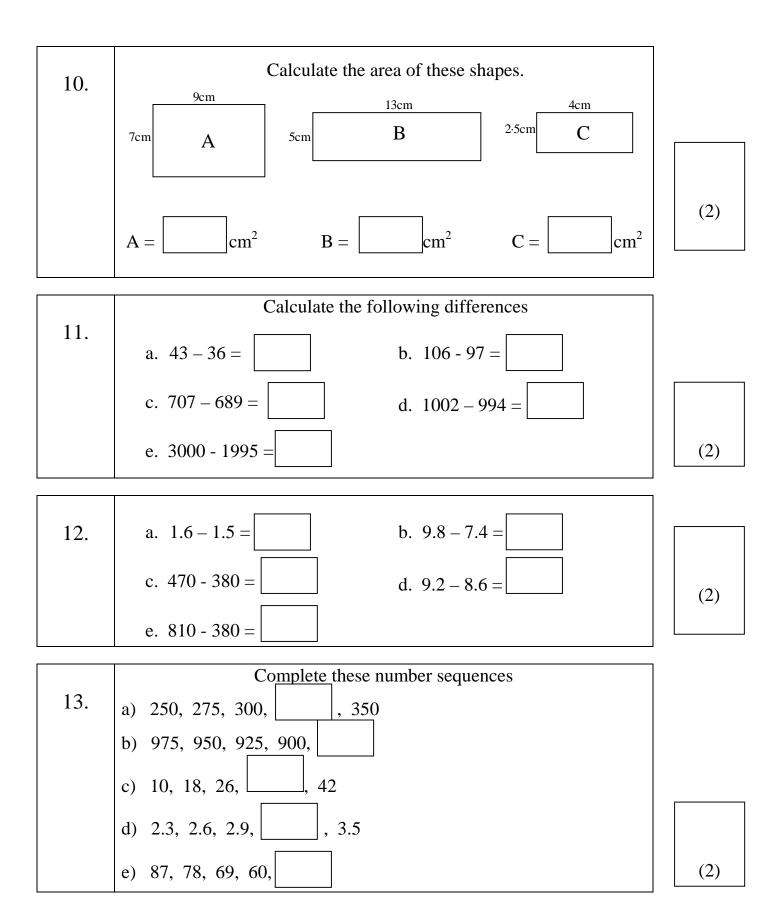
d.	10%	of $£4 =$	



(2)



(2)



## Wigan LEA Numeracy Centre Year 5 Block 3 Assessment

#### <u>Section B - Problem Solving and Calculator Activities</u>

Name:	Date:

#### Calculators may be used throughout this paper

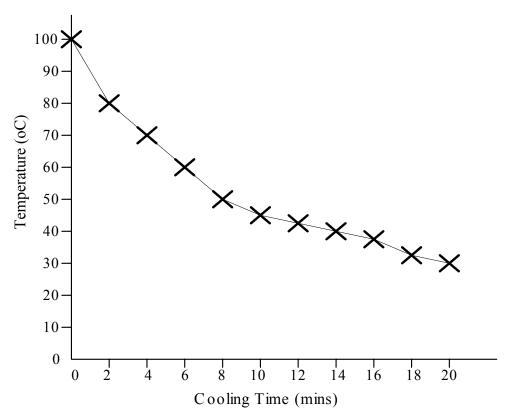
Objectives Assessed: Solve a Problem by -	Question
Interpreting and representing data in a line graph	4, 7
Using all four operations to solve word problems involving money	1, 2
Use all four operations to solve word problems involving time	9, 10, 11
Applying multiplication (TU x TU)	13, 14, 15, 16
Applying multiplication (HTU x U)	1, 2, 3
Using all four operations to solve word problems	3
Interpreting results from a table	5
Interpreting results from a Venn Diagram	6
Calculating angles on a straight line	8
Using simple ratio and proportion contexts	12
Using a calculator effectively	17, 18, 19

Correct responses	<u>Mark</u>

1.	In a shop there are 7 jars of sweets. Each jar contains 254 sweets. How many sweets are there all together?	
	Show your working out	
		(2)
2.	Amanda earns £325 per week. How much does she earn in 6 weeks?	
	Show your working out	
	£	(2)
3.	Sue reads 9 pages of a book. On each page there are 412 words. How many words does she read altogether?	
	Show your working out	
		(2)

4.

Nicola boils some water. She checks the temperature of the water as it cools. Nicola plotted the results on a graph.



a) What was the temperature of the water after 8 minutes?

°C

b) How long did it take for the temperature to fall from 40°C to 30 °C?

°C

c) Tick the time period when the temperature of the water cooled most quickly

0-4 4-8 8-12 12-16 16-20 minutes minutes minutes minutes

5. Sally collects data about her friends. Look at the results in the table.

Name of friend	What is your eye colour?	What is your height?	What is your mass?	Do you have a pet dog?	How many music CD's do you have?
Ann	Blue	1.36m	40kg	X	8
Babs	Brown	1.38m	43kg	√	10
Carol	Brown	1.41m	43kg	√	14
Dave	Green	1.56m	50kg	X	3
Eric	Brown	1.29m	37kg	X	5

a) How much taller is Carol than Eric?	

b) Who has brown eyes but does not have a dog?



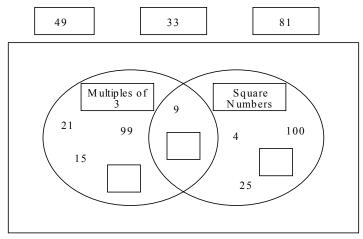
c) What is the mode of the mass of her friends?



d) How many CD's do her friends have altogether?

6.

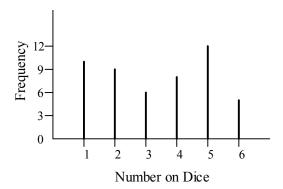
Put these numbers in the Venn Diagram



(1)

7.

This bar line chart shows how many times each number was thrown when a dice was rolled 50 times.



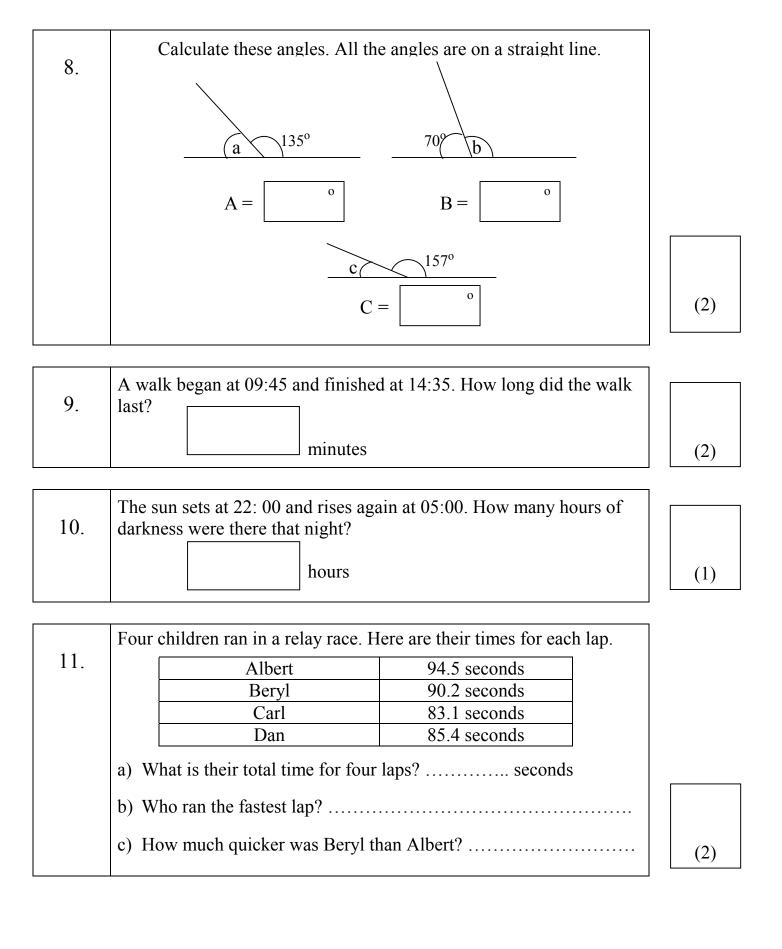
- a) How many times was number 1 thrown?
- b) Which number was thrown 8 times?

(1)

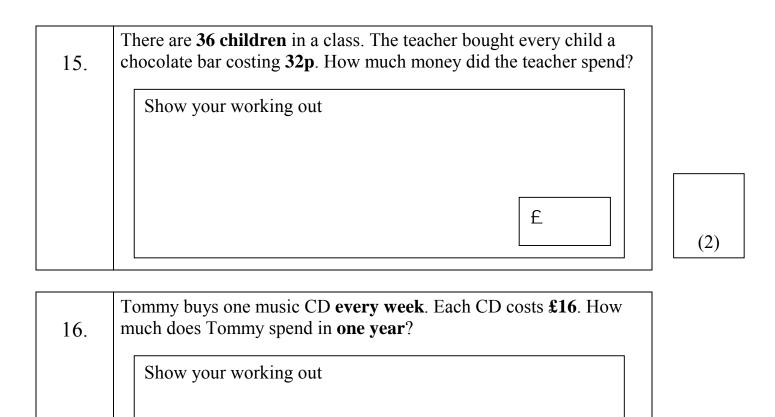
(2)

c) The next time you roll the dice are you more likely to roll a 5 than a 6? yes no

Give a reason for your answer .....

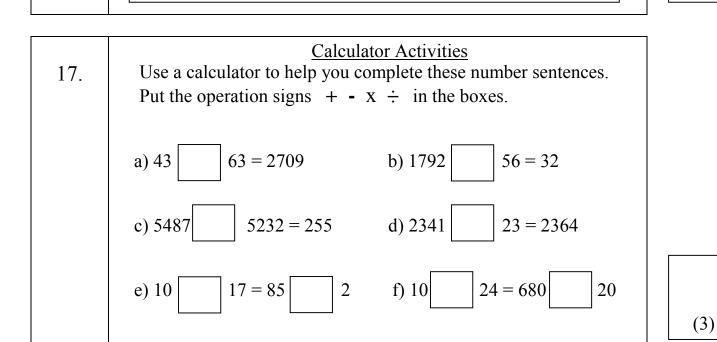


	On school trips there has to be <b>one</b> adult for every <b>ten</b> children.				
12.	<ul><li>a) If 70 children go to Blackpool, how many adults need to go with them?</li><li>b) If 12 adults can go on the school trip to the zoo, how many children can go?</li></ul>	(1)			
13.	16 teams played in the World Cup Finals. Each team had 23 players to choose from. How many players were there altogether?				
	Show your working out				
		(2)			
14.	Gerry picked <b>18 baskets</b> of strawberries. Each basket contained <b>36 strawberries</b> . How many strawberries had he picked altogether?				
	Show your working out				
		(2)			
		(-/			



£

**(2)** 



18.	<u>Calculator Activities</u> Find the numbers to complete these sentences.		
	a) 987 ÷ = 329	b) 25 x = 1400	
	c) 222 ÷ 74 =	d) 56.8 x = 284	
			(2)

