

Wigan LEA Numeracy Centre
Year 5
Block 1 Assessment

5

Section A – Read and Respond

Name:

Date:

Key Objectives Assessed	Question
Multiplying and dividing by 10 and 100	1, 2
Ordering positive and negative integers	3, 4
Rounding numbers to one or two decimal places	5, 6, 7
Relate fractions to division and their equivalent decimals	9
Calculate differences mentally	10
Other Objectives Assessed	
Finding fractions of numbers or quantities	8

<u>Correct Responses</u>
<input type="text"/>

<u>Mark</u>
<input type="text"/>

Overall Level for BLOCK 1 A & B
<input type="text"/>

1. Write the number that should go in the empty box

a. $7 \times 10 =$ <input type="text"/>	b. $10 \times$ <input type="text"/> $= 170$
c. $107 \times 10 =$ <input type="text"/>	d. $1007 \times 10 =$ <input type="text"/>
e. $13 \times 100 =$ <input type="text"/>	f. $100 \times$ <input type="text"/> $= 1400$
g. <input type="text"/> $\times 100 = 900$	h. $76 \times 100 =$ <input type="text"/>

(2)

2. Write the number that should go in the empty box

a. $130 \div 10 =$ <input type="text"/>	b. <input type="text"/> $\div 10 = 26$
c. $2070 \div 10 =$ <input type="text"/>	d. <input type="text"/> $\div 10 = 300$
e. $3700 \div 100 =$ <input type="text"/>	f. <input type="text"/> $\div 100 = 6$
g. <input type="text"/> $\div 100 = 90$	h. $8300 \div$ <input type="text"/> $= 83$

(2)

3. Write out these sets of numbers in order from the **lowest** to the **highest numbers**

a. 109 90 990 909 1009

b. -2 -8 -1 -6 -4

(1)

Look at the temperature chart for world cities

City	Temperature
London	2°C
Oslo	-5°C
Moscow	-17°C
Montreal	-24°C
Warsaw	-8°C

4.

- a. Which city was the coldest? _____
- b. Which city was the warmest? _____
- c. How much warmer was London than Oslo? _____
- d. Which city had a temperature between -10°C and -20°C?

(2)

Round these decimal numbers to the **nearest** whole number

Decimal Number	Rounded to the nearest whole number
7.2	7
6.7	
9.8	
20.3	
99.7	
200.4	

5.

(2)

Round these decimal numbers to the **nearest** whole number

Decimal Number	Rounded to the nearest whole number
6.12	6
9.47	
9.96	
19.72	
98.54	

6.

(2)

7.

- Round 6.1m to the nearest metre _____ m
- Round 5.8kg to the nearest kilogram _____ kg
- Round 5.52km to the nearest kilometre _____ km
- Round 11.49kg to the nearest kilogram _____ kg
- Round £3.52 to the nearest pound £ _____
- Round £5.99 to the nearest pound £ _____
- Round £19.99 to the nearest pound £ _____
- Round £24.45 to the nearest pound £ _____

(2)

8. Calculate

- $\frac{1}{2}$ of 72p = _____ p
- $\frac{1}{4}$ of £2 = _____ p
- $\frac{1}{3}$ of 36m = _____ m
- $\frac{1}{5}$ of 55kg = _____ kg
- $\frac{1}{10}$ of 250g = _____ g
- $\frac{1}{7}$ of 56p = _____ p
- $\frac{1}{8}$ of £100 = £ _____
- $\frac{1}{9}$ of 81km = _____ km

(4)

9. Complete the table below

Fraction	Equivalent Decimal
$\frac{1}{2}$	0.5
$\frac{1}{10}$	
	0.25
	0.2
$\frac{1}{100}$	
$\frac{3}{4}$	

(3)

10. Calculate

- 43 - 36 = _____
- 404 - 397 = _____
- 706 - 598 = _____
- 804 - 592 = _____
- 3000 - 1997 = _____
- 2006 - 1999 = _____
- 8005 - 2998 = _____
- 6004 - 2992 = _____

(2)

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Section B – Written Calculations

Name:

Date:

Key Objectives Assessed	Question
Know multiplication facts up to 10 x 10	1, 2
Addition and subtraction of positive integers less than 1000	3, 4
Use all four operations to solve word problems	5, 6
Carry out short multiplication 3 digit by single digit number	7
Other Objectives Assessed	
Classify triangles	8
Construct and measure straight lines to the nearest mm	9
Recognise positions, read and plot co-ordinates in the first quadrant	10
Interpret a bar line graph	11
Identify the 'mode' in a set of data	12

Mark

1.

Fill in the missing numbers

a. $6 \times 6 = \underline{\quad}$

b. $7 \times 7 = \underline{\quad}$

c. $8 \times 8 = \underline{\quad}$

d. $9 \times 9 = \underline{\quad}$

e. $7 \times \underline{\quad} = 42$

f. $56 = 7 \times \underline{\quad}$

g. $63 = 9 \times \underline{\quad}$

h. $8 \times 6 = \underline{\quad}$

i. $9 \times \underline{\quad} = 72$

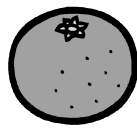
j. $\underline{\quad} \times 6 = 54$

(2)

2.



Pear 7p



Orange 8p



Grapes 9p



Apple 6p

What is the cost of

a. 8 pears $\underline{\quad}$ p

b. 7 grapes $\underline{\quad}$ p

c. 7 pears $\underline{\quad}$ p

d. 4 grapes $\underline{\quad}$ p

e. 9 oranges $\underline{\quad}$ p

f. 8 apples $\underline{\quad}$ p

g. 7 oranges $\underline{\quad}$ p

h. 9 apples $\underline{\quad}$ p

(2)

3.

Calculate

$$\begin{array}{r} 587 \\ 475 + \\ \hline \end{array}$$

$$\begin{array}{r} 797 \\ 546 + \\ \hline \end{array}$$

$$\begin{array}{r} 7587 \\ 675 + \\ \hline \end{array}$$

(3)

4.

Calculate

$$\begin{array}{r} 754 \\ 86 - \\ \hline \end{array}$$

$$\begin{array}{r} 724 \\ 386 - \\ \hline \end{array}$$

$$\begin{array}{r} 9324 \\ 6177 - \\ \hline \end{array}$$

(3)

5.

Look at the map below which shows distances between towns in kilometres



- a. What is the distance from St Ives to London?
Show your working out.

(2)

- b. It is 527km from London to Carlisle. What is the distance from Birmingham to Carlisle? Show your working out.

(2)

6.

Find the total of **57 562 and 2187**.
Show your working out.

(2)

7.

Show your working out for **all** of these questions

a.

What is 127×7 ?

(2)

b.

What is 235×8 ?

(2)

c.

What is 346×9 ?

(2)

d.

Bill saved £7 every week for one year. How much did he save?

(2)

e.

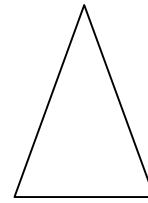
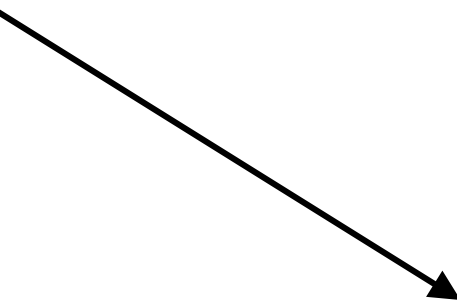
Gerry bought nine 26 pence stamps. How much did they cost?

(2)

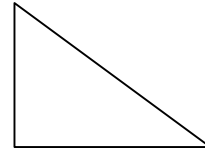
8.

Draw three lines to match the words to the correct triangle

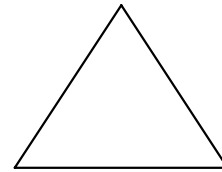
Right-angled triangle



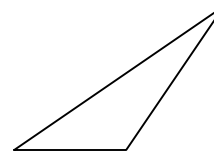
Equilateral triangle



Scalene triangle



Isosceles triangle



(1)

9.

Use a ruler to measure these lines

a.  mm

b.  mm

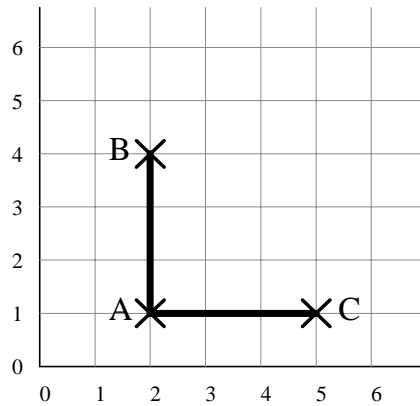
c.  mm

d. Use a ruler to draw a straight line 72mm long. Start from the dot.



(2)

10.

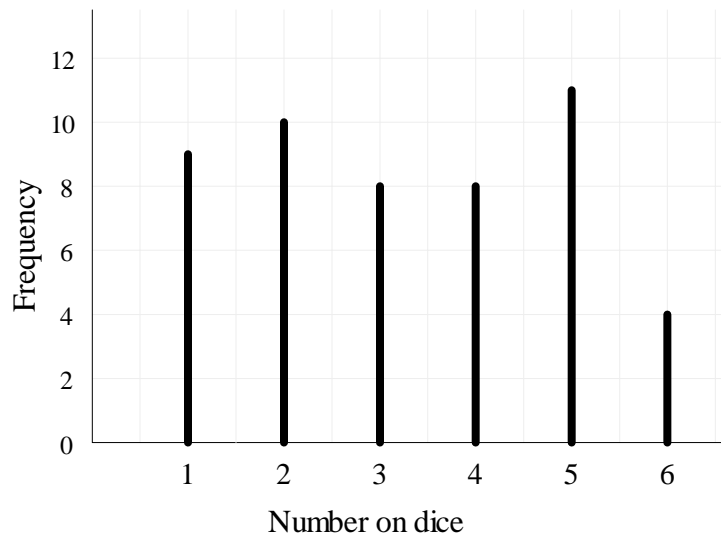


- a. Mark the position (with x) to complete the square.
- b. What are the co-ordinates of position C ? (____,____)

(2)

11.

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



Scores on a dice rolled 50 times

- a. How many times was the number 3 thrown? _____
- b. Which number was rolled most often? _____

(1)

12.

A group of children weighed themselves.
Look at their records.

Child	Mass
Bill	31kg
Pam	30kg
Will	32kg
Sam	33kg
Carl	34kg
Jill	33kg
Roy	37kg
Sue	32kg
Phil	33kg

- a. Which was the most common mass? (mode) _____
- b. Who had a mass greater than 35kg? _____

(2)

Y5 Block 1 Assessment Section A
Answers and Suggested Mark Scheme

Question	N. C. Level	Answer	Marks	Total Marks
1	4C	a) 70 b) 17 c) 1070 d) 10070 e) 1300 f) 14 g) 9 h) 7600	All 8 correct – 2 marks 5 – 7 correct – 1 mark Less than 5 correct – 0 marks	2
2	4C	a) 13 b) 260 c) 207 d) 3000 e) 37 f) 600 g) 9000 h) 100	All 8 correct – 2 marks 5 – 7 correct – 1 mark Less than 5 correct – 0 marks	2
3	4B	a) 90, 109, 909, 990, 1009 b) -8, -6, -4, -2, -1	All correct – 1 mark	1
4	4A	a) Montreal b) London c) 7° d) Moscow	All correct – 2 marks 2 correct - 1 mark	2
5	4C	7, 10, 20, 100, 200	All correct – 2 marks 3 – 4 correct – 1 mark Less than 3 correct – 0 marks	2
6	4A	9, 10, 20, 99	All correct – 2 marks 3 correct – 1 mark	2
7	4B	a) 6m b) 6kg c) 6km d) 11kg e) £4 f) £6 g) £20 h) £24	All 8 correct – 2 marks 5 – 7 correct – 1 mark Less than 5 correct – 0 marks	2
8	4C	a) 36p b) 50p c) 12m d) 11kg e) 25g f) 8p g) £12.50 h) 9km	All 8 correct – 4 marks 5 – 7 correct – 2 marks 3 – 4 correct – 1 mark Less than 3 correct – 0 marks	4
9	4C	0.1, $\frac{1}{4}$, $\frac{1}{5}$, 0.01, 0.75	All correct – 3 marks 3 – 4 correct – 2 marks Less than 3 correct – 0 marks	3
10	4C	a) 7 b) 7 c) 108 d) 212 e) 1003 f) 7 g) 5007 h) 3012	All 8 correct – 2 marks 5 – 7 correct – 1 mark Less than 5 correct – 0 marks	2

Total

22

Y5 Block 1 Assessment Section B
Answers and Suggested Mark Scheme

Question	N. C. Level	Answer	Marks	Total Marks
1	4B	a) 36 f) 8 b) 49 g) 7 c) 64 h) 48 d) 81 i) 8 e) 6 j) 9	All correct – 2 marks 6 – 9 correct – 1 mark Less than 6 correct – 0 marks	2
2	4B	a) 56p e) 72p b) 63p f) 48p c) 49p g) 56p d) 36p h) 54p	All correct – 2 marks 5 – 7 correct – 1 mark Less than 5 correct – 0 marks	2
3	3A	1062, 1343, 8262	All correct – 3 marks 2 correct – 1 mark	3
4	3A	668, 338, 3147	All correct – 3 marks 2 correct - 1 mark	3
5a	3A	512km – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
5b	4C	348km – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
6	3A	2806 – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
7a	4B	889 – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
7b	4B	1880 – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
7c	4B	3114 – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
7d	4B	£364 – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
7e	4B	£2.34 – any method of working	Correct answer – 2 marks Correct method – 1 mark	2
8	3A	Equilateral – 3 rd from top Isosceles – Top Scalene - Bottom	All correct – 1 mark	1
9	3A	a) 66mm b) 37mm c) 54mm Check actual measurement. Allow 1mm either way	All correct – 2 marks 3 correct – 1 mark	2
10	4B	a) 5, 4 b) 5, 1	1 mark for each correct part	2
11	3A	a) 8 b) 5	All correct – 1 mark	1
12	4C	a) 33kg b) Roy	1 mark for each correct part	2

<u>Total</u> 34

Y5 Block 1 Assessments Sections A & B
Guide to Levels

B3	3C	3B	3A	4C	4B	4A
0 – 11	12 – 18	19 – 25	26 - 32	33 – 41	42 – 50	51 - 56

Total Marks A + B = 56