Wigan LEA $\mathcal{N}$ (umeracy Centre Year 5
Block 3 Assessment

## Section $\mathcal{A}-\operatorname{Re}$ ad and Respond


$\square$

| 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 $10 \times 10$ | 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 $5^{\circ}$ | 9 |
| Calculate a temperature fall across $0^{\circ} \mathrm{C}$ | 1 |
| Recognise and extend number sequences from any number in <br> steps of constant size | 13 |


| Correct Responses |
| :---: |
|  |


| Mark |
| :---: |
|  |

Overall level for
Block 3 A \& B

a. $370 \times 2=\square$
b. $2 \mathrm{x} \square=520$
c. $2 \times 3200=\square$
d. $2 \mathrm{x} \square=6800$
e. $2 \times 4900=\square$


4. $\quad$| Complete this multiplication table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| X | 4 | 6 | 7 | 8 | 9 |
| 2 | 8 | 12 | 14 | 16 | 18 |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |

| 5. | Complete this fraction grid. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\qquad$Start <br> Number | $\mathbf{2 4}$ | $\mathbf{4 8}$ | $\mathbf{7 2}$ | $\mathbf{9 6}$ | $\mathbf{1 4 4}$ |  |
| To find $\frac{1}{3}$ <br> (divide <br> by 3) | 8 | 24 |  | 48 |  |  |
| To find $\frac{1}{6}$ <br> (half <br> of $\frac{1}{3}$ | 4 | 8 |  |  |  |  |


| 6. | The table shows decimal numbers and equivalent fractions. <br> Complete the table below |  |
| :---: | :---: | :---: |
|  | Decimals Equivalent Fractions <br> 0.7  <br> 0.03 $\frac{3}{4}$ <br>  $\frac{1}{100}$ <br> 1.48  |  |


| 7. | a. $50 \%$ of $£ 7=\square$ b. $25 \%$ of $£ 10=\square$ <br> c. $10 \%$ of $£ 30=\square$ d. $10 \%$ of $£ 4=\square$ <br> e. $75 \%$ of $£ 20=\square$  |
| :--- | :--- |


| 8. | Which shape has ONE pair of PARRALLEL sides? $\qquad$ <br> Which shape has TWO pairs of PARRALLEL sides? $\qquad$ <br> Which shape contains only ONE right angle? $\qquad$ |
| :---: | :---: |





| 11. | Calculate the following differences |  |
| :--- | :--- | :---: |
| a. $43-36=\square$ b. $106-97=\square$ <br> c. $707-689=\square$ d. $1002-994=\square$ <br> e. $3000-1995=\square$  |  |  |

12. 

a. $1.6-1.5=\square$
b. $9.8-7.4=\square$
c. $470-380=\square$
d. $9.2-8.6=\square$
e. $810-380=\square$

| 13. | Complete these number sequences |  |
| :--- | :--- | :---: |
| a) $250,275,300, \square, ~$ |  |  |
| b) $975,950,925,900, \square$ |  |  |
| c) $10,18,26, \square, 42$ |  |  |
| d) $2.3,2.6,2.9, \square$ |  |  |
| e) $87,78,69,60, \square$ |  |  |



Wigan $\mathcal{L E A} \mathcal{N}$ umeracy Centre Year 5

Block 3 Assessment


Section $\mathcal{B}$-Problem Solving and Calculator Activities
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 | $17,18,19$ |



$$
\text { Year } 5 \quad \underline{\text { Block } 3 \text { Assessment } \quad \text { Section } \mathcal{B}}
$$

$\square$
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



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

| Name of <br> friend | What is <br> your eye <br> colour? | What is <br> your <br> height? | What is <br> your <br> mass? | Do you <br> have a pet <br> dog? | How many <br> music CD's <br> do you <br> have? |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ann | Blue | 1.36 m | 40 kg | X | 8 |
| Babs | Brown | 1.38 m | 43 kg | $\sqrt{ }$ | 10 |
| Carol | Brown | 1.41 m | 43 kg | $V$ | 14 |
| Dave | Green | 1.56 m | 50 kg | X | 3 |
| Eric | Brown | 1.29 m | 37 kg | X | 5 |

a) How much taller is Carol than Eric? $\square$
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?




The sun sets at 22: 00 and rises again at $05: 00$. How many hours of
10. darkness were there that night?


Four children ran in a relay race. Here are their times for each lap.
11.

| Albert | 94.5 seconds |
| :---: | :---: |
| Beryl | 90.2 seconds |
| Carl | 83.1 seconds |
| Dan | 85.4 seconds |

a) What is their total time for four laps? seconds
b) Who ran the fastest lap? $\qquad$
c) How much quicker was Beryl than Albert? .........................................

| 12. | On school trips there has to be one adult for every ten children. <br> a) If 70 children go to Blackpool, how many adults need to go <br> with them? |
| :---: | :--- |
| b) If 12 adults can go on the school trip to the zoo, how many <br> children can go? |  |





## Calculator Activities

17. Use a calculator to help you complete these number sentences. Put the operation signs $+-x \div$ in the boxes.
a) $43 \square 63=2709$
b) $1792 \square 56=32$
c) $5487 \square 5232=255$
d) $2341 \square 23=2364$
e) 10

$17=85 \square 2$
2
f) $10 \square$ $24=680 \square$ 20

| 17. | Calculator Activities <br> Use a calculator to help you complete these number sentences. Put the operation signs $+-\mathrm{x} \div$ in the boxes. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  | a) 43 | $63=2709$ | b) 1792 | $56=32$ |  |
|  | c) 548 | $5232=255$ | d) 2341 | $23=2364$ |  |
|  | e) 10 | $17=85 \square 2$ | f) 10 | $=680$ | 20 |


| 18. | Calculator Activities |
| :---: | :---: | :---: |
| Find the numbers to complete these sentences. |  |
| a) $987 \div \square=329$ | b) $25 \times \square=1400$ |
| c) $222 \div 74=\square \square$ | d) $56.8 \times \square \square$ |


| 19. | How many seconds are there in the month of June? |
| :--- | :--- |
| Show your working out |  |

# Y5 Block 3 Assessment Section A <br> Answers and Suggested Mark <br> Scheme <br> www.11plusguide.com 

| Question | N. C. Level | Answer |  |  |  |  |  | Marks | Total Marks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 5C | a) London <br> b) Glasgow |  | c) <br> d) | $10^{\circ} \mathrm{C}$ <br> Aberdeen \& Wigan |  |  | All correct - 3 marks 3 correct - 1 mark | 3 |
| 2 | 4C | a) 740 <br> b) 260 <br> c) 6400 |  | d) 3400 <br> e) 9800 |  |  |  | All correct - 2 marks <br> 3 or 4 correct - 1 mark | 2 |
| 3 | 4A | a) $5 \frac{1}{4}$ <br> b) $2 \frac{2}{3}$ <br> c) $4 \frac{2}{2}$ |  | d) 4 <br> e) 36 |  |  |  | All correct - 3 marks 3 or 4 correct - 2 marks 2 correct - 1 mark | 3 |
| 4 | 4C | X <br> 2 <br> 6 <br> 7 <br> 8 <br> 9 | 4 | 6 | 8 | 9 |  | All correct - 3 marks <br> 6-10 correct -2 marks <br> $0-5$ correct -0 marks | 3 |
|  |  |  | 8 | 12 | 16 | -18 |  |  |  |
|  |  |  | 24 | 36 | 48 | 5 |  |  |  |
|  |  |  | 28 | 42 | 56 | 6 |  |  |  |
|  |  |  | 32 | 48 | 6 | 7 |  |  |  |
|  |  |  | 36 | 54 | 72 | 8 |  |  |  |
| 5 | 4B | Start Number | 24 | 48 | 72 | 96 | 144 | All correct - 3 marks 3 or 4 correct - 2 marks $0-2$ correct -0 marks | 3 |
|  |  | To find $\frac{1}{3}$ | 8 | 16 | 24 | 32 | 48 |  |  |
|  |  | To find $\frac{1}{6}$ | 4 | 8 | 12 | 16 | 24 |  |  |
| 6 | 4B | $\begin{gathered} 7 / 10,{ }^{3} / 100,0.75,0.01,1^{48} / 100 \text { or } 1^{24} / 50 \text { or } \\ 1^{12} / 25 \end{gathered}$ |  |  |  |  |  | All correct - 2 marks 3-4 correct - 1 mark | 2 |
| 7 | 5C | a) $£ 3.50$ <br> d) 40 p <br> b) $£ 2.50$ <br> e) $£ 15.00$ <br> c) $£ 3.00$ |  |  |  |  |  | All correct - 2 marks <br> 3-4 correct - 1 mark | 2 |
| 8 | 4C | C, B, D |  |  |  |  |  | All correct - 2 marks 2 correct - 1 mark | 2 |
| 9 | 4B | a) $\underset{\text { ( allow } 1}{ }$ b) $107^{\circ} \quad$ cegree either way) $78^{\circ}$ |  |  |  |  |  | All correct - 2 marks <br> 2 correct - 1 mark | 2 |
| 10 | 4B | a) $63 \mathrm{~cm}^{2}$ |  | b) $65 \mathrm{~cm}^{2}$ |  | c) $10 \mathrm{~cm}^{2}$ |  | All correct - 2 marks 2 correct - 1 mark | 2 |
| 11 | 4C | a) 7 <br> b) 9 <br> c) 18 |  | d) 8 <br> e) 1005 |  |  |  | All correct - 2 marks <br> 3-4 correct - 1 mark | 2 |
| 12 | 4B | a) 0.1 <br> b) 2.4 <br> c) 90 |  | d) 0.6 <br> e) 430 |  |  |  | All correct - 2 marks <br> 3-4 correct - 1 mark | 2 |
| 13 | 4B | a) 325 <br> b) 875 <br> c) 34 |  | d) 3.2 <br> e) 51 |  |  |  | All correct - 2 marks <br> 3-4 correct - 1 mark | 2 |

Y5 Block 3 Assessment Section B

| Question | N. C. Level | Answer | Marks | Total Marks |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 4B | 1778 | Correct answer - 2 marks Correct method - 1 mark | 2 |
| 2 | 4B | 1950 | Correct answer - 2 marks Correct method -1 mark | 2 |
| 3 | 4B | 3708 | Correct answer - 2 marks Correct method - 1 mark | 2 |
| 4 | 4A | a) $50^{\circ} \mathrm{C} \quad$ b) $6 \mathrm{mins} \quad$ c) $0-4 \mathrm{mins}$ | All correct - 2 marks <br> 2 correct - 1 mark | 2 |
| 5 | 4B | $\begin{array}{llll}\text { a) } 12 \mathrm{~cm} & \text { b) Eric } & \text { c) } 43 \mathrm{~kg} & \text { d) } 40\end{array}$ | All correct - 2 marks 3 correct - 1 mark | 2 |
| 6 | 4A | $\begin{array}{ll}\text { a) } \begin{array}{l}49-\text { square } \\ \text { number }\end{array} & \text { b) } 33-\text { multiple of } \\ \text { c) } 81 \text { both } & \end{array}$ | All correct - 1 mark | 1 |
| 7a, b | 4A | a) $10 \quad$ b) 4 | Both correct - 1 mark | 1 |
| 7 c | 4A | No - any appropriate reason e.g. 1 in 6 chance of rolling 5 or 6 | No and reason - 2 marks Just ticked No - 0 marks | 2 |
| 8 | 4 C | $\begin{array}{llll}\text { a) } 45^{\circ} & \text { b) } 110^{\circ} & \text { c) } 23^{\circ}\end{array}$ | All correct - 2 marks 2 correct - 1 mark | 2 |
| 9 | 4B | 290 minutes or 4 h 50 m | 2 marks | 2 |
| 10 | 4B | 7 hours | 1 mark | 1 |
| 11 | 4A | a) 353.2 seconds <br> b) Carl <br> c) 4.3 seconds | All correct - 2 marks <br> 2 correct - 1 mark | 2 |
| 12a | 5 C | 7 | 1 mark | 1 |
| 12b | 5 C | Any number between 111 and 120 | 1 mark | 1 |
| 13 | 4A | 368 | Correct answer - 2 marks Correct method - 1 mark | 2 |
| 14 | 4A | 648 | Correct answer - 2 marks Correct method - 1 mark | 2 |
| 15 | 4A | £11.52 | Correct answer - 2 marks Correct method - 1 mark | 2 |
| 16 | 4A | £832 | Correct answer - 2 marks Correct method - 1 mark | 2 |
| 17 | 5C | a) x <br> d) + <br> b) $\div$ <br> e) $x, x$ <br> c) - <br> f),$+ \div$ | All correct - 3 marks <br> $4-5$ correct - 2 marks <br> Less than 4-0 marks | 3 |
| 18 | 5C | a) 3 <br> c) 3 <br> b) 56 <br> d) 5 | All correct -2 marks 2 or 3 correct - 1 mark | 2 |
| 19 | 5B | 2592000 | Correct answer - 3 marks Correct method - 2 marks | 3 |

Total- 39

## Y5 Block 3 Assessments Sections A \& B Guide to Levels

| B3 | 3 C | 3B | 3A | 4 C | 4 B | 4 A | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $0-12$ | $13-19$ | $20-27$ | $28-35$ | $36-43$ | $44-51$ | $52-59$ | $60-69$ |

Total Marks A $+\mathrm{B}=69$

