



Numeracy Assessment

Time Allowed: 20 minutes

Fill in your details in the boxes and read the instructions printed below.

Forename (s)

Surname

Date of Birth

Day	Month	Year
<input type="text"/>	<input type="text"/>	<input type="text"/>

Date Assessment Sat

Day	Month	Year
<input type="text"/>	<input type="text"/>	<input type="text"/>

1. You may use a calculator, (except for q.17).
2. Write any working and your answers in the boxes provided.
3. Additional space is provided at the end of this question-answer booklet for use if required. If you use this space, write clearly the number of the question involved.
4. Partial credit will be given for any questions where you are able to answer some parts but not all.
5. For any questions with more than one part, credit may still be given for a wrong answer if you show correct working and it is a result of a wrong answer from an earlier part.
6. Before leaving the room, you must give this question-answer booklet to a member of staff. If you do not you may lose all the marks you have gained.
7. Use a blue or black ink pen to answer all questions.
8. RELAX AND GOOD LUCK!

Marks Available

1) Calculate the following:

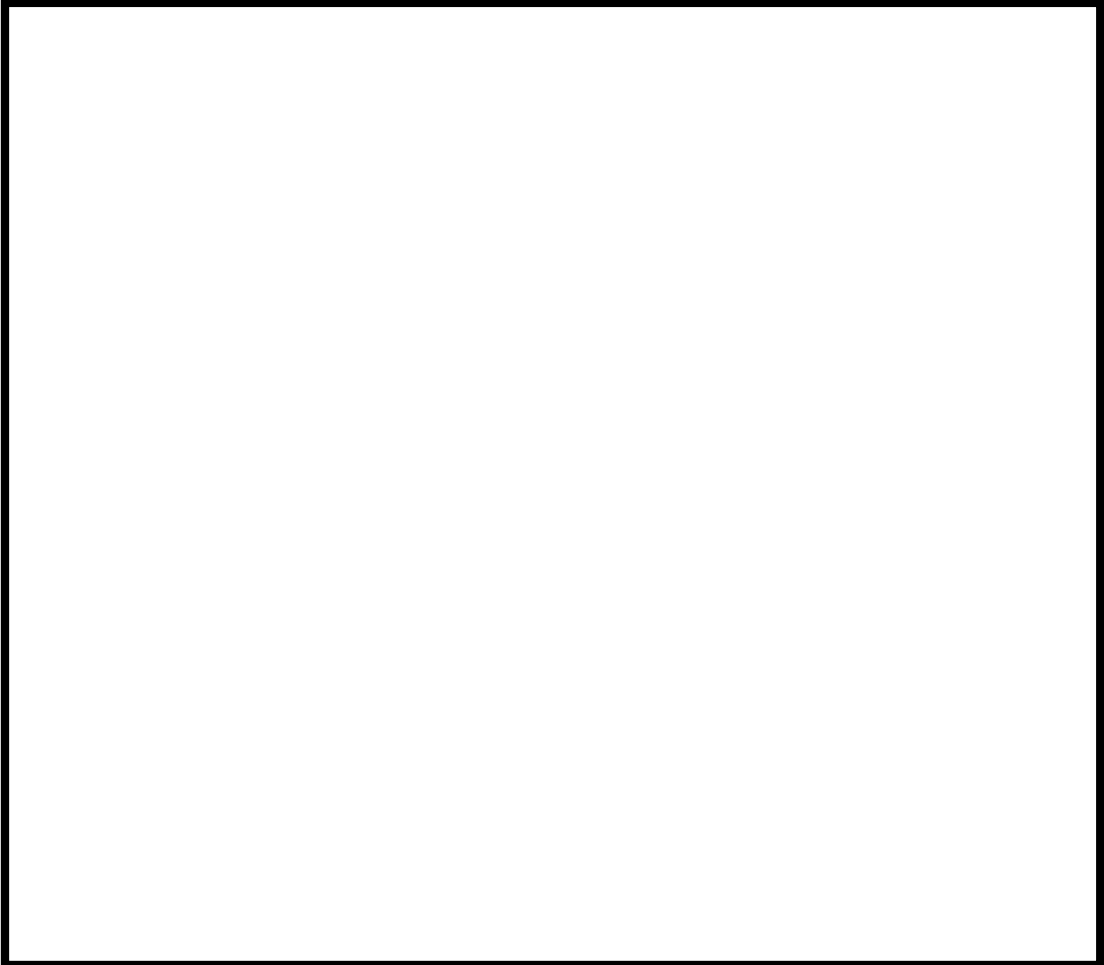
(4)

a) $16 + 45$

b) $51 - 24$

c) 26×4

d) $98 \div 7$

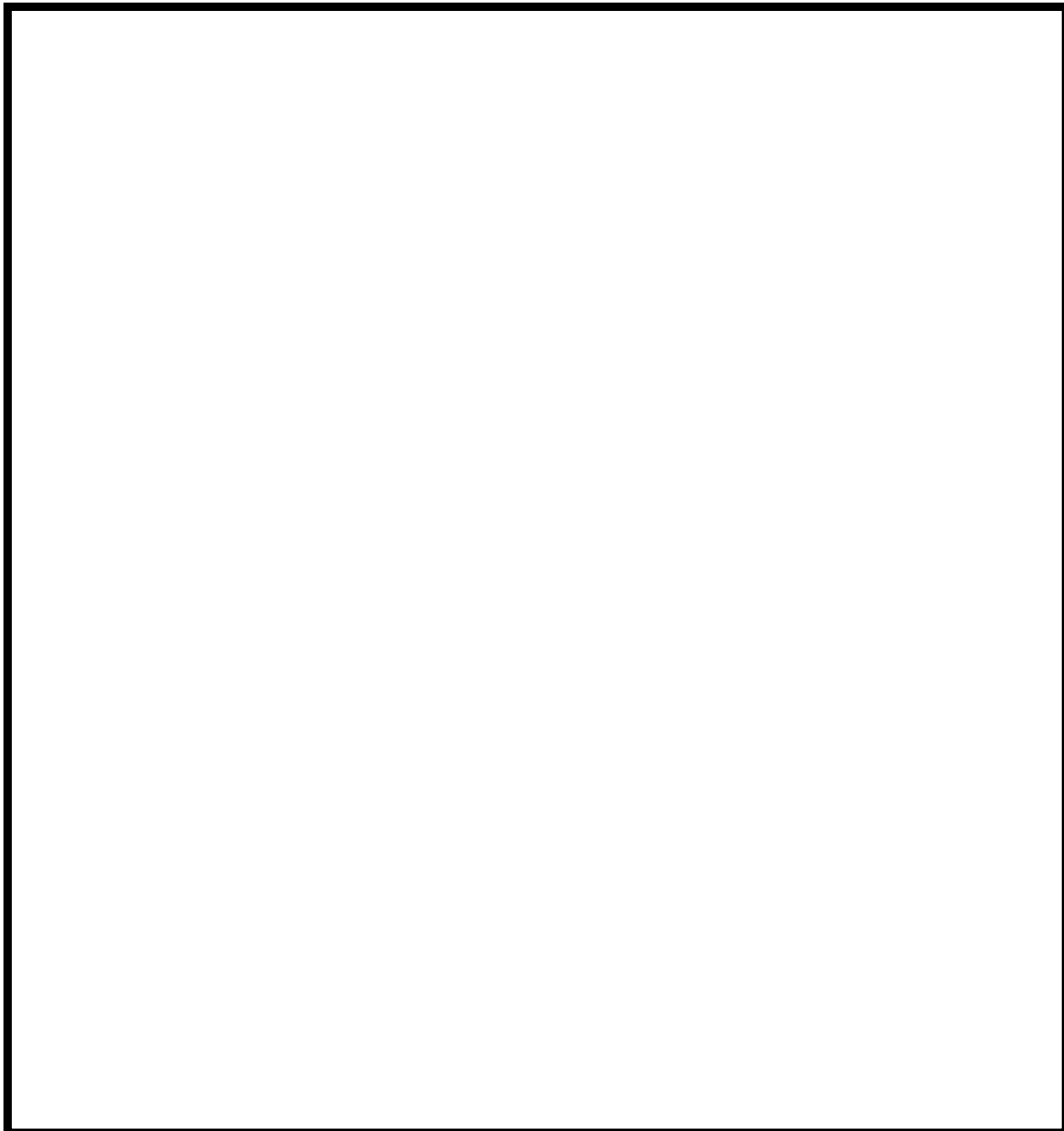
A large empty rectangular box with a thick black border, intended for the student to write their answers to the four arithmetic problems listed above.

- 2) Donald is 43 years old and his wife Eileen is 39 years old. Donald's Mum Victoria is 81 years old and their three children are aged 7, 13 and 15. They all go to the local Sea Life Centre where the ticket prices are shown as follows:

TICKET TYPE	TICKET PRICE
Adult (16 years old and over)	£8.50
Child (Under 16 years old)	£5.50
Concession (60 years old and over)	£3.85

What is the total cost of the tickets for all 6 people?

(4)



- 3) Fill in the blank spaces in the table below to show each time in 12 and 24 hour clock.
(Row A has already been completed for you). (6)

	24 Hour Clock	12 Hour Clock
A	1745	5.45 p.m.
B	2220	
C		7.15 p.m.
D		6.30 a.m.
E	1630	
F	0840	
G		10.35 a.m.

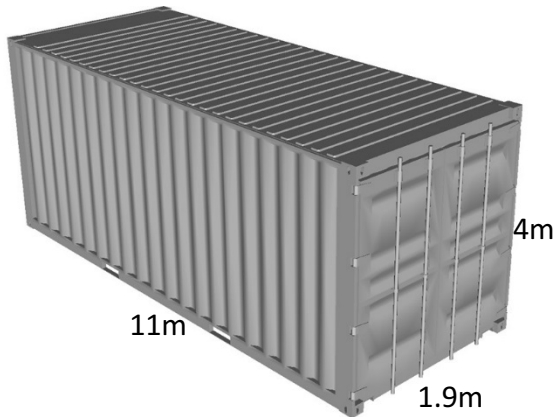
- 4) Which one of the following decimal fractions is equivalent to $\frac{2}{5}$? (1)

(Circle your answer)

0.40 0.75 0.50 0.18

- 5) Calculate 369×38 without use of your calculator. (2)
(You must show working to gain any marks for this question).

- 6) A container of classic cars is being delivered from Middlesbrough to Inverness. The container is a cuboid which is 11m long, 1.9m wide and 4m high.



Calculate the volume of the container.

(3)

ASSESSMENT GUIDELINES

Question	Marking Scheme (Marks to be awarded shown in brackets)	Example of evidence, (other methods are acceptable)																								
1	a) 61 ⁽¹⁾ b) 27 ⁽¹⁾ c) 104 ⁽¹⁾ d) 14 ⁽¹⁾	16+45 = 61 51-24 = 27 26x4 = 104 98÷7 = 14																								
Notes	Answers only should be awarded the mark																									
2	£37.35 ⁽⁴⁾	£8.50 + £8.50 + £5.50 + £5.50 + £5.50 + £3.85 = £37.35																								
Notes	<p style="text-align: center;">£8.50 x 2 = £17 ⁽¹⁾ £5.50 x 3 = £16.50 ⁽¹⁾ £3.85 x 1 = £3.85 ⁽¹⁾</p> <p style="text-align: center;">Correct total given ⁽¹⁾</p> <p style="text-align: center;">Answers only, including total, awarded ALL marks ⁽⁴⁾</p> <p style="text-align: center;">One mark lost if £ sign missing from final answer</p> <p style="text-align: center;">Incorrect total awarded a mark ⁽¹⁾ if consistent with wrong earlier answers.</p>																									
3	(6)	Boxes filled in correctly																								
	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">24 Hour Clock</th> <th style="text-align: center;">12 Hour Clock</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">1745</td> <td style="text-align: center;">5.45p.m.</td> </tr> <tr> <td style="text-align: center;">B</td> <td style="text-align: center;">2220</td> <td style="text-align: center;">10.20p.m.</td> </tr> <tr> <td style="text-align: center;">C</td> <td style="text-align: center;">1915</td> <td style="text-align: center;">7.15p.m.</td> </tr> <tr> <td style="text-align: center;">D</td> <td style="text-align: center;">0630</td> <td style="text-align: center;">6.30a.m.</td> </tr> <tr> <td style="text-align: center;">E</td> <td style="text-align: center;">1630</td> <td style="text-align: center;">4.30p.m.</td> </tr> <tr> <td style="text-align: center;">F</td> <td style="text-align: center;">0840</td> <td style="text-align: center;">8.40a.m.</td> </tr> <tr> <td style="text-align: center;">G</td> <td style="text-align: center;">1035</td> <td style="text-align: center;">10.35a.m.</td> </tr> </tbody> </table>		24 Hour Clock	12 Hour Clock	A	1745	5.45p.m.	B	2220	10.20p.m.	C	1915	7.15p.m.	D	0630	6.30a.m.	E	1630	4.30p.m.	F	0840	8.40a.m.	G	1035	10.35a.m.	
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Notes	<p style="text-align: center;">One mark lost if any 24 hour clock times do not have 4 digits</p> <p style="text-align: center;">No marks lost if answers are correct and in a different but recognisable format, e.g. 10.20pm or 10:20p.m.</p> <p style="text-align: center;">One mark awarded for at least one 12 hour and one 24 hour given correctly ⁽¹⁾</p> <p style="text-align: center;">Two further correct answers, no matter if they are 12 or 24 hour clock earns second mark ⁽¹⁾</p> <p style="text-align: center;">Final mark awarded if all answers given correctly ⁽¹⁾</p>																									
4	0.40 ⁽¹⁾	Correct fraction circled																								
Notes	Mark awarded if correct answer written rather than circled																									
5	14022 ⁽²⁾	369 3690																								

		$\begin{array}{r} \underline{\times 10} \\ 3690 \end{array}$ $\begin{array}{r} \underline{\times 3} \\ 11070 \end{array}$ $\begin{array}{r} 369 \\ \underline{\times 8} \\ 2952 \end{array}$ $\begin{array}{r} 11070 \\ +2952 \\ \underline{\underline{14022}} \end{array}$
Notes	<p>Any evidence of valid method to multiply without a calculator awarded one mark. Answer only with no working awarded no marks.</p>	
6	83.6m^3 ⁽³⁾	$1.9\text{m} \times 4\text{m} \times 11\text{m} = 83.6\text{m}^3$
Notes	<p>Any evidence of multiplication to begin calculation – awarded one mark ⁽¹⁾ A Correct answer with no valid marks – awarded 2 out of 3 marks ⁽²⁾ Answer only with no working - awarded all marks if valid units present ⁽³⁾</p>	