



BROAD HORIZON
— T U I T I O N —

11+ Tuition

Year 5

Assessment Test 1

ANSWERS

Total: 1172 %

Pass mark is 70% 120/172

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| Overview of Your Scores | | | |
|---------------------------------|------------|-------------------|----------|
| | | Your Score | % |
| ×/÷ by 10 and 100 | / 32 marks | | |
| Multiplication | / 9 marks | | |
| Short Division | / 9 marks | | |
| Rounding | / 40 marks | | |
| BIDMAS | / 10 marks | | |
| Comprehension Techniques | / 7 marks | | |
| Verbal Techniques | / 13 marks | | |
| Non-Verbal | /12 marks | | |
| TOTAL = | | / 132 | |

Maths Section

You will have 60 minutes to complete the maths section.

Multiplying and Dividing Numbers by 10 and 100

1) $4.6 \div 10 = 0.46$

2) $4.6 \div 100 = 0.046$

3) $4.6 \times 10 = 46$

4) $4.6 \times 100 = 460$

5) $150 \div 10 = 15$

6) $150 \div 100 = 1.5$

7) $150 \times 10 = 1500$

8) $150 \times 100 = 15000$

9) $34.8 \div 10 = 3.48$

10) $34.8 \div 100 = 0.348$

11) $34.8 \times 10 = 348$

12) $34.8 \times 100 = 3480$

13) $17 \div 10 = 1.7$

14) $17 \div 100 = 0.17$

15) $17 \times 10 = 170$

16) $17 \times 100 = 1700$

17) $0.7 \div 10 = 0.07$

18) $0.7 \div 100 = 0.007$

19) $0.7 \times 10 = 7$

20) $4.6 \times 100 = 460$

21) $0.23 \div 10 = 0.023$

22) $0.23 \div 100 = 0.0023$

23) $0.23 \times 10 = 2.3$

24) $0.23 \times 100 = 23$

25) $0.56 \div 10 = 0.056$

26) $0.56 \div 100 = 0.0056$

27) $0.56 \times 10 = 5.6$

28) $0.56 \times 100 = 56$

29) $4.7 \div 10 = 0.47$

30) $4.7 \div 100 = 0.047$

31) $4.7 \times 10 = 47$

32) $4.7 \times 100 = 470$

(32 marks)

Division – Bus Stop Method

1)
$$\begin{array}{r} 3372 \\ 2 \overline{) 6, 744} \end{array}$$

2)
$$\begin{array}{r} 1891 \\ 3 \overline{) 5, 673} \end{array}$$

3)
$$\begin{array}{r} 365 \\ 8 \overline{) 2, 920} \end{array}$$

4)
$$\begin{array}{r} 1306 \\ 6 \overline{) 7, 836} \end{array}$$

5)
$$\begin{array}{r} 473 \\ 9 \overline{) 4, 257} \end{array}$$

6)
$$\begin{array}{r} 1237 \\ 7 \overline{) 8, 659} \end{array}$$

7)
$$\begin{array}{r} 299 \\ 5 \overline{) 1, 495} \end{array}$$

8)
$$\begin{array}{r} 1754 \\ 2 \overline{) 3, 508} \end{array}$$

9)
$$\begin{array}{r} 2428 \\ 4 \overline{) 9, 712} \end{array}$$

(9 marks)

Rounding

| Round the following numbers to the nearest 10 | | |
|---|--------|--------|
| 1) | 13 | 10 |
| 2) | 23 | 20 |
| 3) | 18 | 20 |
| 4) | 98 | 100 |
| 5) | 134 | 130 |
| 6) | 192 | 190 |
| 7) | 372 | 370 |
| 8) | 1243 | 1240 |
| 9) | 5253 | 5250 |
| 10) | 37,546 | 37,550 |

| Round the following numbers to the nearest 100 | | |
|--|--------|--------|
| 1) | 140 | 100 |
| 2) | 260 | 300 |
| 3) | 180 | 200 |
| 4) | 345 | 300 |
| 5) | 352 | 400 |
| 6) | 985 | 1000 |
| 7) | 1050 | 1100 |
| 8) | 6929 | 6900 |
| 9) | 8728 | 8700 |
| 10) | 12,425 | 12,400 |

| Round the following numbers to the nearest 1000 | | |
|---|---------|-----------|
| 1) | 2300 | 2000 |
| 2) | 1978 | 2000 |
| 3) | 4368 | 4000 |
| 4) | 6500 | 7000 |
| 5) | 9500 | 10,000 |
| 6) | 13,483 | 13,000 |
| 7) | 49,268 | 49,000 |
| 8) | 123,436 | 123,000 |
| 9) | 15,500 | 16,000 |
| 10) | 999,501 | 1,000,000 |

| Round the following numbers to 1 decimal place | | |
|--|---------|------|
| 1) | 4.93 | 4.9 |
| 2) | 5.03 | 5 |
| 3) | 2.68 | 2.7 |
| 4) | 7.55 | 7.6 |
| 5) | 3.44 | 3.4 |
| 6) | 12.09 | 12.1 |
| 7) | 18.89 | 18.9 |
| 8) | 44.347 | 44.3 |
| 9) | 82.383 | 82.4 |
| 10) | 49.2532 | 49.3 |

(40 marks)

BIDMAS – Order of Operations

1) $(13 + 35) \div (-3 + 5)$

24

6) $(13 + 23 - 4) \div 8$

4

2) $(13 - 5) + 12 \div 2$

14

7) $5 \times 5 \times (9 + 8)$

425

3) $(13 + 2) + 18 \div 2$

24

8) $(21 + 4) \times 10 + 3$

253

4) $(10 + 43 - 5) \div 24$

2

9) $3 \times 5 \times (10 - 4)$

90

5) $(12 + 2) \times 14 - 5$

191

10) $(15 + 45) \div (22 - 2)$

3**(10 marks)**

Comprehension Section

Describe the comprehension methods we have covered over the last few lessons in as much detail as possible.

There are 3 points to mention about reading the text.

- 1. Read the text carefully once, imagine the story, infer.**
- 2. Do not skip anything you do not understand.**
- 3. Skim the text a second time round.**

There are 2 points to mention regarding what to do before answering every comprehension question.

- 1. Refer back to the text**
- 2. You might need to piece together information from different parts of the text, you may not find your answer in one part of the text.**

There are 2 points to mention regarding “How to find something in the text”.

- 1. Look for key words in the question which are specific to that question, then go and skim the text until you find those keywords.**
- 2. Focus enough whilst reading the text that you have a rough idea where to look to find a certain piece of information.**

(7 marks)

Verbal Reasoning

GL Techniques

Type 1:

- 1) **books** School
- 2) **Sally** **dog**
- 3) **four** **one**

Type 2:

- 4) **sea** **sky**
 - 5) **track** **motorway**
 - 6) **paw** **hoof**
-

Type 3:

- 7) **FAT TUBE**
- 8) **TON TRIP**
- 9) **NET MEAT**

Type 4:

- 10) **income**
- 11) **powerless**
- 12) **away**
- 13) **passage**

(13 marks)

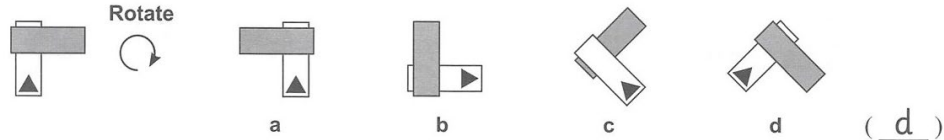
Non-Verbal Reasoning

Rotation

Rotate the Figure

Work out which option would look like the figure on the left if it was rotated.

Example:



The figure has been rotated 45 degrees clockwise.

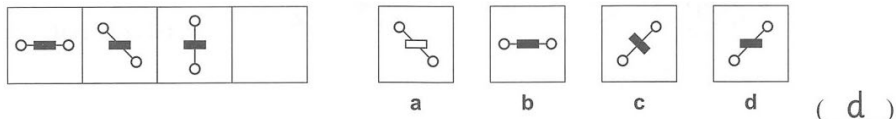
1) **6. D**
The figure is rotated 225 degrees clockwise (or 135 degrees anticlockwise). In option A, only the triangle has been rotated. Options B and C are rotated reflections and the circle in C is positioned incorrectly.

2) **7. B**
The figure is rotated 90 degrees clockwise. Options A and C are the wrong shape and option D is a reflection.

Complete the Series

Work out which of the options best fits in place of the missing square in the series.

Example:



In each series square, the line rotates 45 degrees clockwise. (The black rectangle does not change.)

3) **9. A**
The entire series square rotates 90 degrees anticlockwise.

10. D
The entire series square rotates 90 degrees clockwise.

4) *The droplet's shading alternates between black and white.*

Reflection

Reflect the Figure

Work out which option would look like the figure on the left if it was reflected over the line.
 Example:

Options A, C and D are rotations instead of reflections.

- 5) **6. C**
Option A is a downwards reflection. Option B is a 90 degree anticlockwise rotation. In option D, the line is reflected but the ends of the line have been swapped over.

- 6) **7. D**
In option A, the shape has not been reflected. In option B, the hatching has not been reflected. Option C is a downwards reflection.

Find the Figure Like the First Two

Work out which option is most like the two figures on the left.
 Example:

All figures must have a black shape and a white shape which are reflections of each other.

- 7) **9. B**
All figures must have two halves that are reflections of each other.

- 8) **10. D**
In all figures, the two shapes must be reflections of each other.

Layering

Odd One Out

Find the figure in each row that is most unlike the other figures.
 Example:

a b c d e (c)

In all the other figures, the black shape is at the front.

9) **6. A**
In all other figures, the circle is in front of the large shape.

7. D
 10) *In all other figures, the black-and-white shapes have their black half overlapping the big square.*

Complete the Pair

Look at how the first two figures are changed, and then work out which option would look like the third figure if you changed it in the same way.
 Example:

a b c d (c)

The arrows move to the back of the figure and the central shape moves to the front.

11) **9. B**
The grey shape moves to the front.

10. B
 12) *The small shape at the back moves to the front.
 The small shape at the front moves to the back.*

(12 marks)