



**BROAD HORIZON**  
— TUITION CENTRE —

# **11+ Tuition – Year 4**

**Week 4**

# **ANSWERS**

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### Starter Task – Quick Revision

1. Round 9736 to the nearest hundred = 9700
2. Round 1.2778 to the nearest tenth = 1.3
3. Round 5.3257 to 3 decimal places = 5.326
4. Round 34,621 to the nearest thousand = 35,000

5)				
		7	2	4
X			3	9
2	8	2	3	6

6)		4	8	6
6	2	9	1	6

7)		6	9	7
8	5	5	7	6

- 8)  $7 \div 1000 = 0.007$
- 9)  $24 \times 1000 = 24,000$
- 10)  $90.5 \div 1000 = 0.0905$

# Maths

## Practice - BIDMAS – Order of Operations

Solve.

1)  $4^3 + 15 \div 3$

Ans = **69**

2)  $7 \times 2^4 - 28$

Ans = **84**

3)  $6^2 - 92 \div 4$

Ans = **13**

4)  $2 \times 3^3 + 10$

Ans = **64**

5)  $5^2 \times 6 - 85$

Ans = **65**

6)  $64 \div 2^5 + 24$

Ans = **26**

7)  $70 \div 5 - 2^3$

Ans = **6**

8)  $4^2 + 7 \times 2$

Ans = **30**

9)  $2 \times 3^3 + 1$

Ans = **55**

10)  $7 + 80 \div 4^2$

Ans = **12**

Solve.

1)  $4^2 - 2 \times 3$

Ans =

2)  $11 + 2^4 \div 8$

Ans =

3)  $5^2 \div 5 + 22$

Ans =

4)  $3 \times 7^2 + 1$

Ans =

5)  $3^3 + 2 \times 8$

Ans =

6)  $96 \div 2^5 - 2$

Ans =

7)  $10 \times 12 - 2^4$

Ans =

8)  $8^2 + 16 \div 4$

Ans =

9)  $3^3 \div 9 + 2$

Ans =

10)  $10 \times 5^2 - 172$

Ans =

Solve.

1)  $5^2 + 26 \div 2 - 67$

Ans =

2)  $16 \times 2^3 - 19 + 3^2$

Ans =

3)  $19 - 10 \div 5 + 6^2 \times 2$

Ans =

4)  $4^2 \times 3 - 2^4 + 21 \div 7$

Ans =

5)  $8^2 + 1 \times 5 - 45$

Ans =

6)  $24 \div 3 + 5^3 - 13^2$

Ans =

7)  $48 \div 12 - 4^3 + 3$

Ans =

8)  $9^2 + 2 \times 3 \div 6 - 49$

Ans =

9)  $3 \times 2^5 + 15 - 12^2$

Ans =

10)  $8 + 88 \div 11 - 4^3 + 2$

Ans =

Solve.

1)  $(7^3 + 4) - 14 \times 6$

Ans = **263**

2)  $(44 \div 11)^4 - 78$

Ans = **178**

3)  $12^2 \div (3 \times 4) - 41$

Ans = **-29**

4)  $125 \div (17 - 12)^2$

Ans = **5**

5)  $(2^5 + 57) - 32 \div 4$

Ans = **81**

6)  $4^4 - (18 \div 9)$

Ans = **254**

7)  $(4 \times 5^2) + 16$

Ans = **116**

8)  $96 \div 2^3 - (4 \times 15)$

Ans = **-48**

9)  $3^3 + (11 \times 7) - 43$

Ans = **61**

10)  $(29 + 35) \div 2^2$

Ans = **16**

Solve.

1)  $(83 - 38) \div 3^2$

Ans =

2)  $(36 \div 9)^3 - 87$

Ans =

3)  $(7^2 + 41) \div 3 - 94$

Ans =

4)  $(14 \times 5) + 2^5$

Ans =

5)  $3^2 + (26 - 9) \times 2$

Ans =

6)  $7 + 66 \div (2^4 - 5)$

Ans =

7)  $(64 + 24) \div 2^3$

Ans =

8)  $(55 - 45)^2 \div 4$

Ans =

9)  $14 + 75 - (31 \times 3^2)$

Ans =

10)  $3^3 + 77 \div (27 - 16)$

Ans =

Solve.

1)  $28 \div 7 \times (6 + 7) - (19 + 25)$

Ans =

**8**

2)  $15 + 2 \times (16 \div 4) + 5 \times 2$

Ans =

**33**

3)  $36 \div 3 + (10 \times 3) - 18$

Ans =

**24**

4)  $76 \div (23 - 21) \times 2 + 9$

Ans =

**85**

5)  $16 + (24 - 4) \times 3 + 19$

Ans =

**95**

6)  $58 \div 2 + (2 \times 7) + 15 - 42$

Ans =

**16**

7)  $9 \times 48 \div (3 + 5) - 13$

Ans =

**41**

8)  $(94 - 16) \div 3 + 2 \times 6$

Ans =

**38**

9)  $64 \div (16 \times 4) + 12 - (7 + 5)$

Ans =

**1**

10)  $7 \times (2 + 4) - 63 - 24$

Ans =

**-45**

Solve.

1)  $90 \div (2 \times 5) + 13 - 34$

Ans = **-12**

2)  $5 \times (7 + 11) - 56 \div (2 \times 4)$

Ans = **83**

3)  $(39 - 13) \div 2 \times 5 - 45$

Ans = **20**

4)  $28 \div (4 + 10) \times (4 + 24) \div 2$

Ans = **28**

5)  $(21 \div 3) + 27 - (8 \times 5) + 75$

Ans = **69**

6)  $39 + (74 - 63) \times 4 + 16$

Ans = **99**

7)  $(12 + 8) \times 3 \div 4 + 15$

Ans = **30**

8)  $3 \times (16 \div 2) + 16 \times 5$

Ans = **104**

9)  $11 \times 5 - (72 + 18) \div 5$

Ans = **37**

10)  $(64 \div 8) + 7 \times 8 + (40 - 38)$

Ans = **66**

## English - Comprehension

### Question 1

a. What do you think the recent weather has been like where the children live?

**The passage refers to a patch of blue sky fighting the grey. Answers should be based around the weather not being very good, wet, rainy, etc.**

b. How do you think the children are getting to school?

**Answers may vary and include - walking or biking to school with their dad.**

c. What is the meaning of 'a bright day?'

**A sunny day, lots of sun and sunshine. Sun makes people's moods feel bright or happy.**

### Question 2

a. What does the weather seem like this evening?

**Answers may vary but should be based on the weather being fine, clear or warm (the sky is clear, stars are evident and short-sleeved clothing is worn).**

b. What do you think they are cooking on the fire?

**Answers may vary, and past experiences may influence answers. Some ideas may include marshmallows, sausages, hotdogs, smores or other foods that could be cooked on a stick over an open fire.**

c. Where do you think they will get their water from?

**They may have hiked in with it, or water may come from a river or stream nearby.**

d. How did they get to the camping spot?

**Answers will vary but may include driving to a certain point and then hiking to the campsite.**

### Question 3

**Answer B - She was quite nervous and did not want to open the door quickly.**

### Question 4

**Answer C - She missed her younger brother, who was away at school camp.**

## Finding Hidden Facts + Logic - Multiple Statement Questions + understanding text

### FINDING HIDDEN FACTS

1. **Dave** — *Dave likes three sports: tennis, swimming and rugby.*
2. **Mohammed** — *Mohammed likes three animals: lions, bats and snakes.*
3. **Mr Davis** — *Mr Davis teaches four classes: Years 7, 10, 12 and 13.*
4. **Lotte** — *Lotte only likes one sort of programme: nature programmes.*

### UNDERSTANDING THE LANGUAGE IN THE TEXT

1. **A** — *The word "sponge" gives the impression that the ground is soft and full of water.*
2. **C** — *The word "trudge" suggests that the walk will be tiring and will take a long time.*
3. **C** — *The "persistent rain and wind" (line 3) made the park even less inviting than usual.*
4. **B** — *This suggests that the black dog blended into the darkness.*
5. **A** — *The word "glared" suggests that the clouds look intimidating.*

### MULTIPLE-STATEMENT QUESTIONS — LOGIC

1. **D** — *Simon gets half as much pocket money as Hector, so he gets £1.50. The others all get more than this.*
2. **B** — *Greg got 11 questions wrong, whereas Sam scored full marks, so Greg cannot have scored 10 less than Sam.*
3. **D** — *Eddie is 10 cm taller than Ailsa, and Gabby is shorter than Ailsa, so she must be more than 5 cm shorter than Eddie.*
4. **B** — *Edwin is 160 cm tall, Danvir is 3 cm taller than Edwin and Natasha is 7 cm taller than Danvir. This means that Natasha is the tallest at 170cm.*
5. **C** — *Meg answered 15 questions correctly and Helen answered 5 more than her, so Helen answered 20.  $15 + 20 = 35$  right answers out of a total of 55 questions answered, so Rebecca and Matteo must have each answered 10 questions right.*
6. **C** — *Kirsten won 3 games and Rohan won twice as many as her, so he won 6.  $6 + 3 = 9$  won out of a total of 13 games, so Max and Sofya must have won 2 games each.*

## Verbal Reasoning

GL Techniques – Type Four

### **TYPE FOUR:**

policeman  
upon  
satin  
postman  
wither  
deckchair  
housewife  
beat  
mean  
haystack  
message  
nearby  
football  
noon  
rather  
letterbox  
slither  
cargoes  
blockage  
bathroom

## Non Verbal Reasoning

**Section 3 — Find the Figure**  
**Like the First Two****1. B***All figures must be triangles with a flat side at the bottom.***2. C***All figures must have the same number of dots as inner lines.***3. C***All figures must have a black shape at the front.***4. B***All figures must have two shapes and an arrow pointing up.***5. B***All figures must have a dot next to the middle of the flat side of the large white shape.***6. B***All figures must have a large shape with the same small shape overlapping it on the left-hand side.***7. D***All figures must have a large shape with five sides. There must be the same number of raindrops as the number of dashed circles inside the five-sided shape.***8. C***All the vase shapes must be shaded black up to the same level. All figures must have a smaller version of this black shading next to the vase shape.***9. B***All figures must have one less inner line than the number of sides of the shape.***10. D***In all figures, the shaded parts of the two inner shapes must equal one whole inner shape.*

## **Section 4 — Find the Figure** **Like the First Three**

**1.        A**

*All figures must have a line going through them which shows a line of symmetry.*

**2.        C**

*All figures must be made of two straight lines and two curved lines.*

**3.        A**

*All figures must be identical apart from rotation.*

**4.        B**

*All figures must be grey with one white quarter.*

**5.        D**

*All figures must have a line which crosses both shapes.*

**6.        C**

*In all figures, the number of sides of both shapes must add up to eight.*

**7.        A**

*In all figures, the shape with the smallest number of sides must have a dashed outline.*

**8.        D**

*All figures must have the same number of crosses as the number of curved lines.*

**9.        B**

*All figures must have a four-sided shape inside the large arrow shape. The two arrows must point at each other.*

**10.       D**

*In all figures, it must be possible to arrange all the shapes into a square.*

## **Section 4 — Find the Figure** **Like the First Two**

**1.        B**

*All figures must have two white shapes that are identical apart from size.*

**2.        C**

*All figures must have a large black outer shape, which is reflected downwards and shrunk to become the white shape in front of it.*

**3.        B**

*All figures must have a star with a dotted line through one of its lines of symmetry.*

**4.        B**

*Each figure must have an outer shape with one more side than the inner shape.*

**Quick Lesson Recap**

1)  $(2^2 + 6 \times 2) \div 4 - 7 = -3$

2)  $8 - 6 \times 2 + 5 = 1$

3)  $(6 + 3^2 \div 3) \times 4 + 8 = 44$

4) What is a superlative adjective? Answers may vary

5) What are the comparative and superlative adjectives for the word 'good'? comparative = better superlative = best

**6)** What are the comparative and superlative adjectives for the word 'bad'?  
comparative = worse      superlative = worst

**Now use some of the methods you have learnt previously to solve these.**

**7)**  $452 \times 8 = 3616$

**8)**  $22,626 \div 9 = 2514$

**9)**  $85 \times 7 = 595$

**10)**  $22.7 \div 100 = 0.227$

## Homework – Vocabulary to memorise

### Vocabulary 4

#### Exercise A

1. Ridiculous
2. Interrogate
3. Leisure
4. Accept
5. Fossil
6. Misuse
7. Limitation
8. Permanent
9. Havoc
10. Masterpiece

#### Exercise B

1. Misuse
2. Ridiculous
3. Fossil
4. Accept
5. Permanent
6. Havoc
7. Limitation
8. Interrogate
9. Masterpiece
10. Leisure