



## 11+ Mixed Practice Paper 2

Original JDSience material. Not an official GL, CEM, CSSE or independent-school paper. Do not copy third-party exam questions.

A second mixed paper with new questions. Do not copy answers from Mixed Practice Paper 1. Show working and check units.

**Suggested time:** 45 minutes · **Questions:** 28

### SECTION A — MATHS

1. Section A — Maths. Work out  $504 \div 8$ . [1]
2. A tank holds 12 litres. It is  $\frac{1}{3}$  full. How many millilitres are in the tank? [1]
3. Find 17% of 200. [1]
4. A square has perimeter 28 cm. What is its area? [1]
5. The ratio of boys to girls in a choir is 2:3. There are 12 boys. How many girls? [1]
6. The range of 3, 11, 7, 3, 9 is? [1]
7. How many minutes are there from 09:48 to 11:07? [1]
8. Write 0.125 as a fraction in its simplest form. [1]

### SECTION B — ENGLISH

9. Section B — English. Correct the sentence: The pair of scissors are on the desk. [1]
10. Give an antonym of ancient. [1]
11. Identify the subordinate clause: Because the fog was thick, the ferry was delayed. [1]
12. Choose the correct spelling: ocured / occurred / ocurred [1]
13. Rewrite as a question: The lantern needs oil. [1]
14. Add speech marks and a comma: Grandad said listen to the clock. [1]

### SECTION C — VERBAL REASONING

15. Section C — Verbal Reasoning. Find the next letter: Z W T Q ? [1]

16. Which word does not belong? knife fork spoon plate ladle [1]
17. If the code for WIND is XJOE, what is the code for EAST? [1]
18. Find the next number: 2, 3, 5, 8, 12, ? [1]
19. Bee is to hive as bird is to ?  
A) sky B) nest C) wing D) tree [1]
20. Move one letter from the first word to the second: STONE RIP [1]
21. If A=1, B=2, C=3 and so on, what is the value of BAG? [1]
22. Find two synonyms: calm noisy peaceful sharp [1]

#### SECTION D — NON-VERBAL REASONING

23. Section D — Non-Verbal Reasoning. Which figure comes next?

Series:

|   |   |
|---|---|
| A | B |
| C | D |

[1]

24. Which figure is the odd one out?

Set:

|   |   |
|---|---|
| A | B |
| C | D |

[1]

25. Which figure comes next?

Series:

|   |   |
|---|---|
| A | B |
| C | D |

[1]

26. Complete the analogy: empty circle is to solid circle as empty square is to ?

is to

as

|   |   |
|---|---|
| A | B |
| C | D |

[1]

27. Which figure comes next?

Series:

|   |   |
|---|---|
| A | B |
| C | D |

[1]

**28.** Which figure is the odd one out?

**Set:**

**A**

**B**

**C**

**D**

**[1]**

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## Answers and short explanations

Check your work only after you have finished. Equivalent wording is accepted where the meaning is the same.

1. **Answer:** 63  
**Why:**  $8 \times 63 = 504$ .
2. **Answer:** 4000 ml  
**Why:**  $\frac{1}{3}$  of 12 l = 4 l = 4000 ml.
3. **Answer:** 34  
**Why:**  $10\% = 20$ ,  $5\% = 10$ ,  $2\% = 4$ .  $20 + 10 + 4 = 34$ .
4. **Answer:** 49 cm<sup>2</sup>  
**Why:** Side =  $28 \div 4 = 7$  cm. Area =  $7 \times 7 = 49$ .
5. **Answer:** 18  
**Why:** 1 part = 6. Girls  $3 \times 6 = 18$ .
6. **Answer:** 8  
**Why:** Largest 11 minus smallest 3 is 8.
7. **Answer:** 79 minutes  
**Why:** 09:48 to 10:48 is 60 minutes, then 19 more to 11:07.
8. **Answer:**  $\frac{1}{8}$   
**Why:**  $0.125 = 125/1000 = \frac{1}{8}$ .
9. **Answer:** The pair of scissors is on the desk.  
**Why:** Pair is singular, so the verb is is.
10. **Answer:** modern / new / recent  
**Why:** Ancient means very old.
11. **Answer:** Because the fog was thick  
**Why:** The because-clause cannot stand alone.
12. **Answer:** occurred  
**Why:** Two c's and two r's: occurred.
13. **Answer:** Does the lantern need oil?  
**Why:** Add an auxiliary and a question mark.
14. **Answer:** Grandad said, "Listen to the clock."  
**Why:** Capital L inside speech; comma before the spoken words.
15. **Answer:** N  
**Why:** Subtract 3 each time.
16. **Answer:** plate  
**Why:** Plate is crockery; the others are handled utensils.
17. **Answer:** FBTU  
**Why:** Each letter moves one place forward.
18. **Answer:** 17  
**Why:** Differences: +1, +2, +3, +4, then +5.  $12 + 5 = 17$ .
19. **Answer:** B) nest  
**Why:** A hive is a bee's home; a nest is a bird's home.

- 20. Answer:** TONE and RIPS  
**Why:** Move S from STONE to RIP.
- 21. Answer:** 10  
**Why:** B=2, A=1, G=7.  $2+1+7=10$ .
- 22. Answer:** calm and peaceful  
**Why:** Both mean quiet and settled.
- 23. Answer:** B  
**Why:** The circle grows larger each time.
- 24. Answer:** D  
**Why:** Three figures are triangles. The square is the odd one out.
- 25. Answer:** B  
**Why:** The plus rotates  $45^\circ$  each time, so next is  $135^\circ$ .
- 26. Answer:** B  
**Why:** The outline stays the same and the fill becomes solid.
- 27. Answer:** B  
**Why:** One dot is removed each time: next is 1.
- 28. Answer:** C  
**Why:** Three figures have one bar; one has three.