

# 11+ Westmidlands VR, NVR & SR, English, Maths Tests

✔ 8 Full-Length papers

✔ 1,400+ Questions

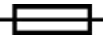
✔ Detailed Answers

✔ Topic-wise Exercises




# 11+ Westmidlands Paper 4 - Session 1

## Instructions:

1. Do not turn over this page until instructed to do so.
2. This test contains four tests:
  - Test 1: Verbal Reasoning (VR)
  - Test 2: Non-Verbal and Spatial Reasoning (NVR/SR)
  - Test 3: English
  - Test 3: Mathematics
3. The front page of each test contains specific instructions. **Read them carefully** before starting.
4. Listen carefully to the instructions **read out by the invigilator**. They will guide you through the test process.
5. Check that your **name** and **date of birth** are correctly shown on the answer sheet.
6. In the answer sheet, **mark** the correct answer by **drawing a line with your pencil** through the small rectangular box beside it like this. 
7. You must make sure that you **mark your answer in the box** that has the same question number as the question you are doing in the paper.
8. If you make a mistake, rub out your mark as well as you can and mark your new answer.
9. The answer sheet will be marked by a computer.
10. You may **do any rough work** on the question paper.
11. This is a **multiple-choice test**. The complete test takes one hour, with approximately 15 minutes for each section.
12. You will need an HB pencil, an eraser and a pencil sharpener. You will not be allowed to use a ruler, a calculator, a protractor, or scrap paper.

### to stop:

Do not turn the page until told to do so 

### to go on:

Please go on to the next page >>>

**or whether you have reached the end of the section/test.**

END OF REASONING TEST

# 11+ Westmidlands

## Session 1 - Test 1

### Verbal Reasoning

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#### Instructions:

1. Do not turn over this page until instructed to do so.
2. There are **four sub-tests**
3. Each sub-test begins with a practice section, where:
  - The **first question** is solved with a detailed solution.
  - The **remaining one question** is for you to attempt.
4. The practice section is followed by the main questions.
5. Each sub-test has **five main questions**.
6. Total time for the test is **15 minutes**.
7. Work quickly and carefully through the questions.
8. If you finish early, **go back and check** your work.
9. This is a **multiple-choice test**. Each question carries **1 mark**.



## Verbal Reasoning Sub-test 1 Practice Section

### Codes - Letter Series

*In these questions, find the next two letters in the pattern. Each pair follows a rule based on their position in the alphabet. Identify the pattern for both letters and choose the next pair in the sequence.*

#### Example

AC EE JI PO [?]

**A** GL

**B** WW

**C** ZK

**D** KR

**E** WL

*The answer is **WW**. The first letter in each pair follows an increasing pattern: A, E, K, R, ?. The step increases by 1 each time: A→E (+4), E→J (+5), J→P (+6), P→? (+7). So the next letter after P is **W**. The second letter follows an increasing pattern: C, H, P, Z, ?. The step increases by 2 each time: C→E (+2), E→I (+4), I→O (+6), O→? (+8). So the next letter after O is **W**. Thus, the next pair after PO is **WW**.*

*Now try this practice question and mark the correct option on the answer sheet.*

**P1** ZA YB XC WD [?]

**A** UE

**B** VF

**C** VE

**D** UF

**E** TG

End of Verbal Reasoning Sub-test 1 Practice Section.



## Verbal Reasoning Subtest 1

This section is **marked**.

**In these questions, find the next two letters in the pattern. Each pair follows a rule based on their position in the alphabet. Identify the pattern for both letters and choose the next pair in the sequence and mark it on the answer sheet.**

1

AB CD EF GH [?]

A IJ

B JK

C KL

D LM

E MN

2

AZ BY CX DW [?]

A ET

B FU

C EV

D HU

E EX

3

BF EK HQ KX [?]

A OD

B NA

C NY

D NF

E PF

4

CG FM JT OB [?]

A TP

B UO

C TN

D UN

E UK



5 DK HQ NY VH [?]  
A ZP      B FO      C FT      D ZS      E FR

End of Verbal Reasoning Sub-test 1



## Verbal Reasoning Sub-test 2 Practice Section

### Complete the Sum

*In these questions, find the number that will complete the sum correctly. The only operations that will be used are multiply, divide, add, and subtract.*

#### Example

$$24 \div 3 + 7 \times 2 = 10 + 4 \times [?]$$

- A** 2                      **B** 3                      **C** 4                      **D** 5                      **E** 6

*The answer is **3**. The sum on the left is  $24 \div 3 + 7 \times 2 = 8 + 14 = 22$ . The right-hand side must equal 22. Since  $10 + 4 \times [?] = 22$ , we have  $4 \times [?] = 12$ . Therefore,  $[?] = 12 \div 4 = 3$ . Thus, the missing number is **3**.*

*Now try this practice question and mark the correct option on the answer sheet.*

**P2**  $8 + 6 \times 4 - 3 = 5 \times 3 + [?]$

- A** 5                      **B** 7                      **C** 9                      **D** 12                      **E** 14

End of Verbal Reasoning Sub-test 2 Practice Section.



## Verbal Reasoning Sub-test 2

*This section is marked.*

***In these questions, find the number that will complete the sum correctly. The only operations that will be used are multiply, divide, add, and subtract and mark the correct answer on the answer sheet.***

**6**      $3 + 2 \times 4 - 1 = 5 + 7 - [?]$

**A** 1            **B** 2            **C** 3            **D** 4            **E** 5

**7**      $6 \times 2 - 3 + 4 = 20 \div 4 + [?]$

**A** 5            **B** 6            **C** 7            **D** 8            **E** 9

**8**      $12 - 4 \times 2 + 3 = 25 \div 5 + [?]$

**A** 2            **B** 3            **C** 4            **D** 5            **E** 6

**9**      $(9 \div 3) + (6 \times 2 - 4) = 36 \div 6 + 1 \times [?]$

**A** 2            **B** 3            **C** 4            **D** 5            **E** 6



10

$$(9 \div 3) + (5 \times 2) - 4 = 24 \div 3 + 6 \div [?]$$

A 2

B 3

C 1

D 6

E 8

End of Verbal Reasoning Sub-test 2



## Verbal Reasoning Sub-test 3 Practice Section

### Making Words - Missing Word

*In these questions, the word in capitals has three missing letters that appear next to each other in the word. These three letters form a correctly spelled word without changing their order. The completed word must make sense in the sentence.*

#### Example

Let's COME the two apples

**A** PER      **B** PUR      **C** PAT      **D** PAR      **E** PET

*The answer is **PAR**. The missing three-letter word from **COME** is **PAR**. Adding **PAR** between **COM** and **E** forms the word **COMPARE**, which correctly completes the sentence.*

*Now try this practice question and mark the correct option on the answer sheet.*

**P3**

The COAGE was painted blue.

**A** ARR      **B** TER      **C** TTA      **D** RRI      **E** EMB

End of Verbal Reasoning Sub-test 3 Practice Section.



## Verbal Reasoning Sub-test 3

This section is **marked**.

**In these questions, the word in capitals has three missing letters that appear next to each other in the word. These three letters form a correctly spelled word without changing their order. The completed word must make sense in the sentence. Find the word and mark the correct answer on the answer sheet.**

**11** The boys played in the PGROUND.

- A** LAY      **B** EGG      **C** GRI      **D** BEL      **E** FAT

**12** She made a DEION to leave early.

- A** CIS      **B** TOM      **C** POT      **D** MAL      **E** RET

**13** He gave an ELLENT report.

- A** EFT      **B** EXA      **C** EXC      **D** EXT      **E** EXU

**14** The IMTANT child needed attention.

- A** POR      **B** SON      **C** ADE      **D** DEM      **E** GIN



15

Her APPANCE was elegant and refined.

A RAH

B EAR

C LIE

D EAL

E REV

End of Verbal Reasoning Sub-test 3



## Verbal Reasoning Sub-test 4 Practice Section

### Word Connections

*In these questions, find the two words, one from each group, that will complete the sentence in the best way.*

#### Example

**Piano** is to (musician flower pencil) as **telescope** is to (baker astronomer candle)

**A** flower    **B** musician    **C** baker    **D** candle    **E** astronomer

*The answer is **musician astronomer**. A piano is used by a musician to create music, just as a telescope is used by an astronomer to observe celestial objects. The relationship in both cases describes the user of the instrument, making **musician** and **astronomer** the correct answer.*

*Now try this practice question and mark the correct option on the answer sheet.*

# P4

**Clock** is to (shovel time bicycle) as **map** is to (cookie direction rainbow)

**A** time    **B** cookie    **C** bicycle    **D** direction    **E** rainbow

End of Verbal Reasoning Subtest 4 Practice Section.



## Verbal Reasoning Sub-test 4

*This section is **marked**.*

***In these questions, find the two words, one from each group, that will complete the sentence in the best way and mark the correct answer on the answer sheet.***

16

**Shoes** is to (feet carpet toothbrush) as **gloves** is to (kitchen hands umbrella)

A catpet    B kitchen    C feet    D hands    E umbrella

17

**Fish** is to (river table lamp) as **bird** is to (chair sky pencil)

A river    B lamp    C sky    D chair    E table

18

**Sun** is to (plant light bicycle) as **rain** is to (water brick television)

A plant    B bicycle    C water    D light    E television

19

**Key** is to (sandwich lock garden) as **needle** is to (sewing potato window)

A sandwich    B window    C lock    D garden    E sewing



20

**Baseball** is to (bat pillow computer) as **tennis** is to (racket doorbell sandwich)

**A** bat   **B** computer   **C** sandwich   **D** doorbell   **E** racket

End of Verbal Reasoning Sub-test 4

# 11+ West Midlands

## Session 1 - Test 2

### Non-Verbal & Spatial Reasoning

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#### Instructions:

1. Do not turn over this page until instructed to do so.
2. There are **three sub-tests**.
3. Each sub-test begins with a **practice section**, where:
  - The **first question** is solved with a detailed solution.
  - The remaining **one question** is for you to attempt.
4. The practice section is followed by the main questions.
5. Each sub-test has **six main questions**.
6. Total time for the test is **15 minutes**.
7. Work quickly and carefully through the questions.
8. If you finish early, **go back and check** your work.
9. This is a **multiple-choice test**. Each question carries **1 mark**.

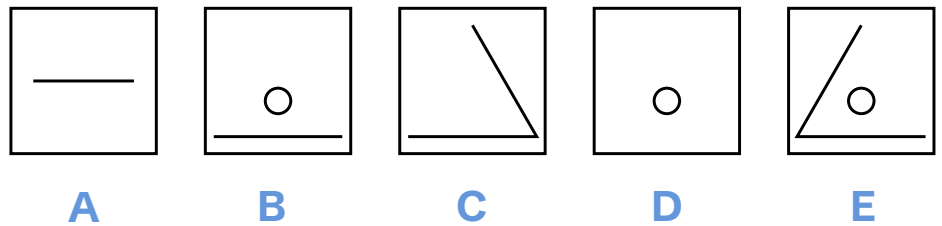
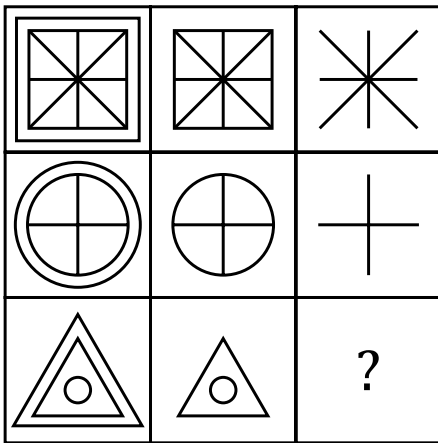


## Non-Verbal Reasoning Sub-test 1 Practice Section

### Matrices

*On the left, a large square is divided into six smaller squares, with one left empty. The other five contain patterns following a specific rule. From the five answer choices on the right, select the pattern that correctly completes the large square.*

#### Example



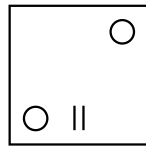
*The correct answer is **D**. While moving from left to right, the outer part removes in a sequence. In the first row, the outer square is removed leaving the internal lines, in the second row, the outer circle is removed leaving the internal cross, and in the third row, the outer triangle should be removed leaving the internal circle. Option **D** perfectly matches this pattern, making it the correct choice.*



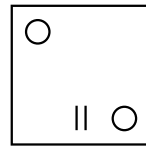
Now try this practice question and mark the correct option on the answer sheet.

P1

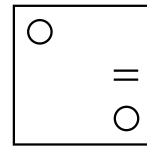
	△
△	△
-	?
○	



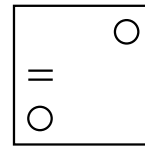
A



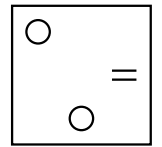
B



C



D



E

End of the Non-Verbal Reasoning Sub-test 1 Practice Section

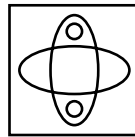
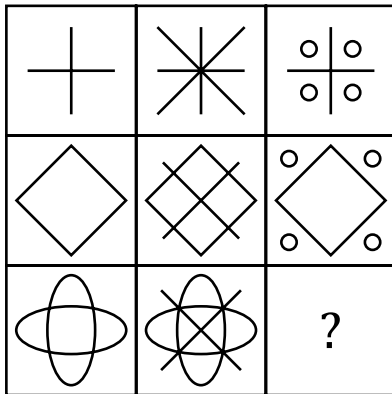


## Non-Verbal Reasoning Sub-test 1

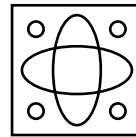
This section is **marked**.

On the left, a large square is divided into smaller squares, with one left empty. The other squares contain patterns following a specific rule. From the five answer choices on the right, select the pattern that correctly completes the large square and mark its letter on your answer sheet.

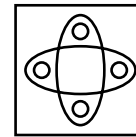
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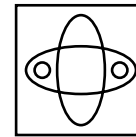
A



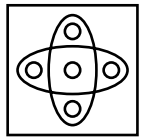
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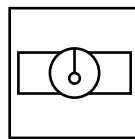
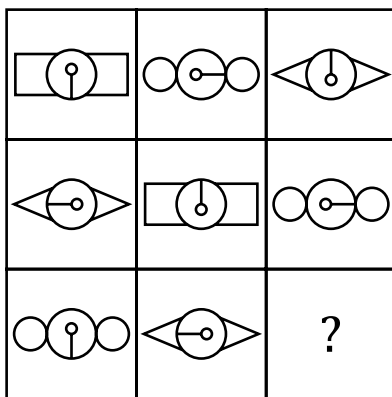


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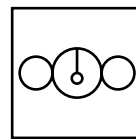


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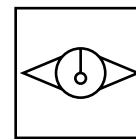
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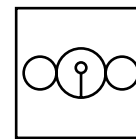
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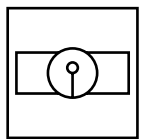
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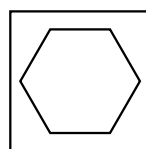
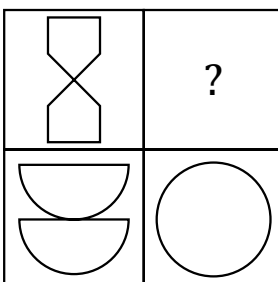


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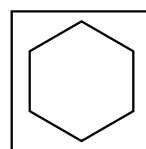


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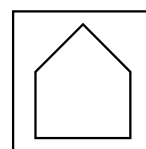
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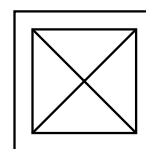
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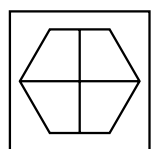
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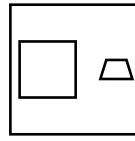
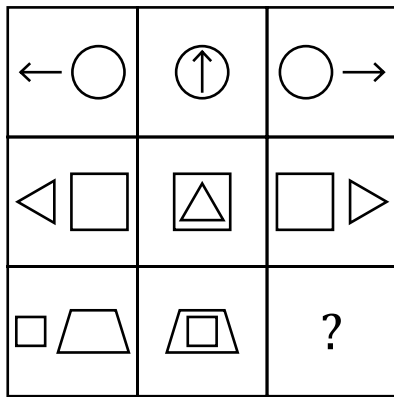
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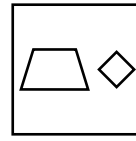
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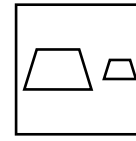
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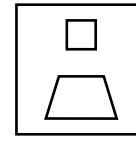
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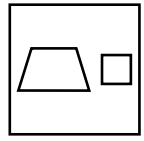
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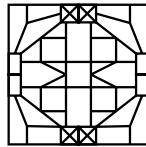
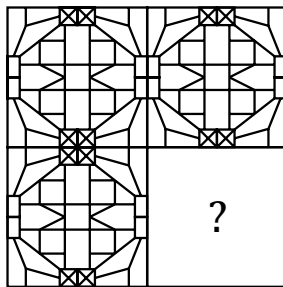


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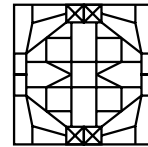


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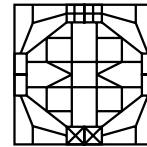
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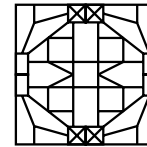
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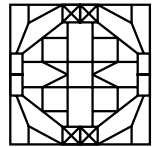
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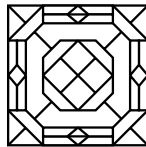
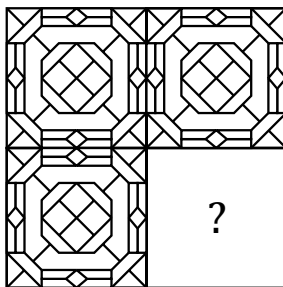


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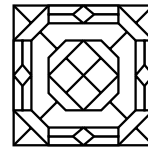


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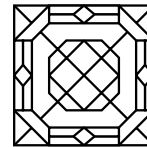
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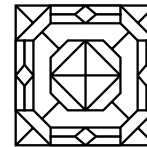
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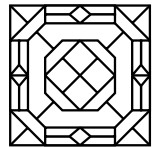
B



C



D



E

End of Non-Verbal Reasoning Sub-test 1

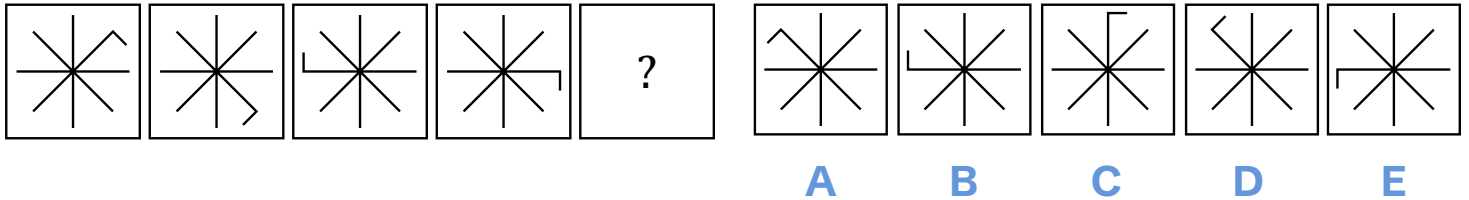


## Non-Verbal Reasoning Sub-test 2 Practice Section

### Series

To the left in the row of shapes below there are five squares arranged in order. One of these squares has been left empty. Find which one of the five squares on the right should take the place of the empty square.

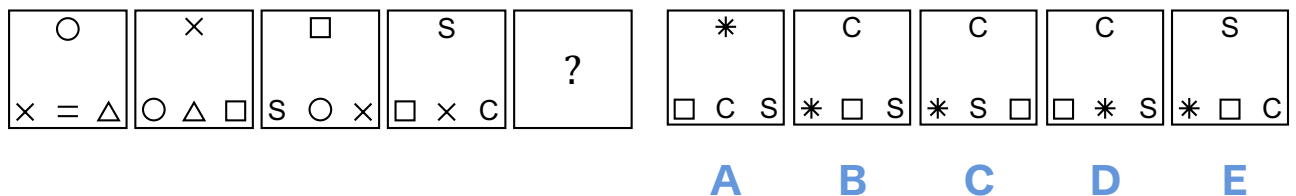
#### Example



The correct answer is **A**. The small line segment attached to main figure moves 1, 2, 3, 4, ..... spaces clockwise sequentially.

Now try this practice question and mark the correct option on the answer sheet.

## P2



End of the Non-Verbal Reasoning Sub-test 2 Practice Section

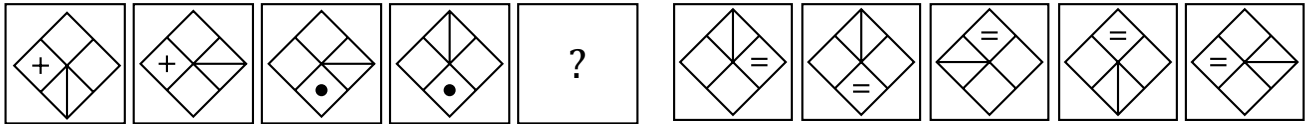


## Non-Verbal Reasoning Sub-test 2

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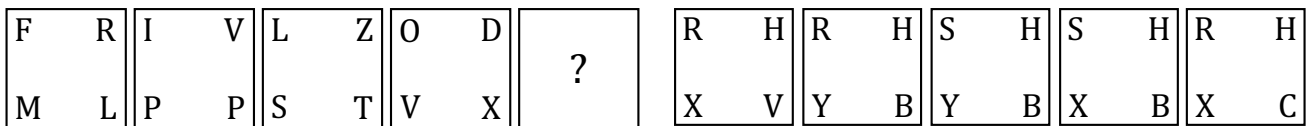
To the left in the row of shapes below there are five squares arranged in order. One of these squares has been left empty. Find which one of the five squares on the right should take the place of the empty square and mark its letter on the answer sheet.

7



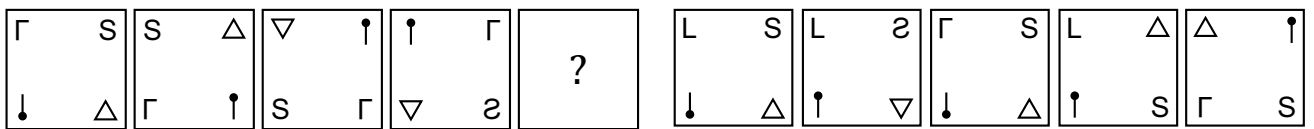
A B C D E

8



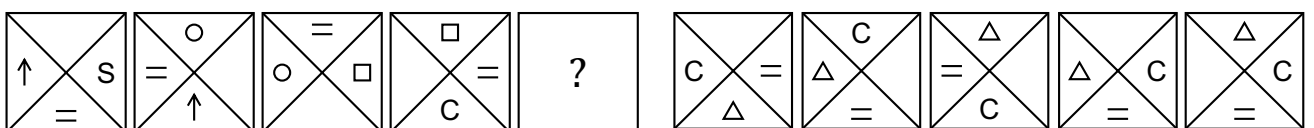
A B C D E

9



A B C D E

10



A B C D E



11

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**A**
**B**
**C**
**D**
**E**

12

A	R	X
B	H	L
P	C	N

B	C	X
A	R	N
P	H	L

X	C	L
A	R	N
B	H	P

A	H	L
X	C	P
B	R	N

?
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L	H	N
X	C	R
A	P	B

L	H	B
X	C	P
A	R	N

L	H	N
X	C	P
A	R	B

L	H	N
C	X	P
A	R	N

L	H	N
X	C	P
A	R	B

**A**
**B**
**C**
**D**
**E**

End of Non-Verbal Reasoning Sub-test 2

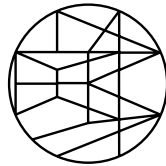
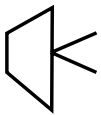
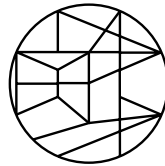
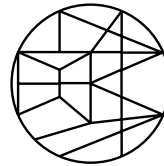
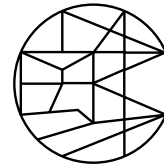
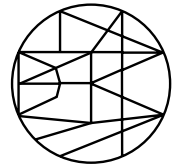


## Spatial Reasoning Sub-test 3 Practice Section

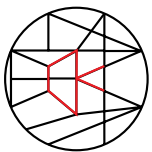
### Hidden Shapes

***A small shape is shown on the left. On the right, there are five larger shapes, each containing multiple patterns. One of them hides the small shape within it. Identify the larger shape that contains the given small shape.***

#### Example

**A****B****C****D****E**

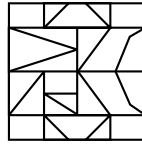
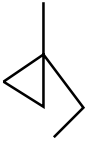
*In this question, the small shape on the left is exactly embedded within the larger shape shown in option **C**. The lines and angles of the small shape match perfectly with the corresponding part of the larger figure, confirming that option **C** contains the small shape.*



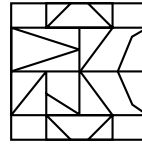


Now try this practice question and mark the correct option on the answer sheet.

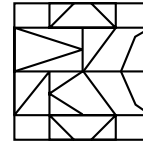
P3



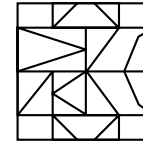
A



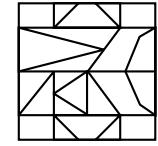
B



C



D



E

End of the Spatial Reasoning Sub-test 3 Practice Section

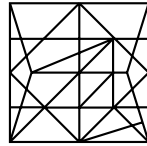
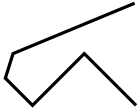


## Spatial Reasoning Sub-test 3

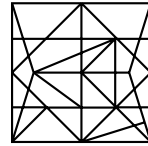
This section is **marked**.

**A small shape is shown on the left. On the right, there are five larger shapes, each containing multiple patterns. One of them hides the small shape within it. Identify the larger shape that contains the given small shape and mark its letter on your answer sheet.**

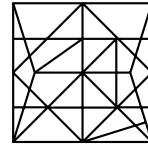
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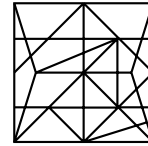
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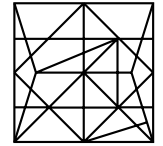
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C

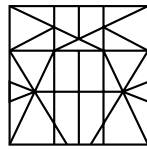
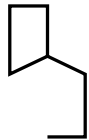


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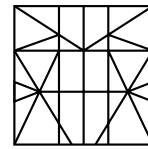


E

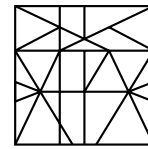
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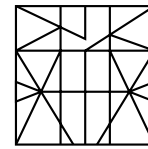
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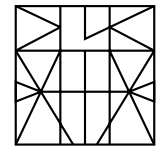
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C

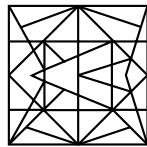
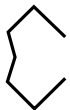


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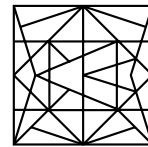


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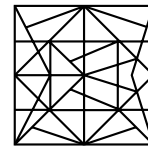
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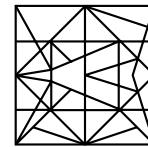
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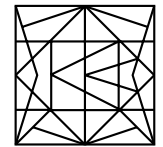
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C

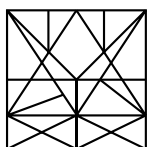
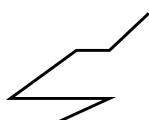


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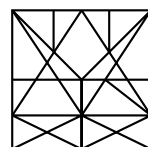


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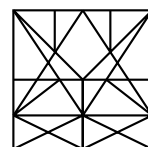
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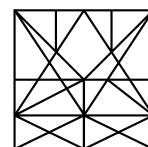
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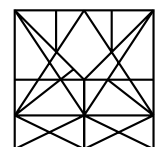
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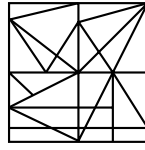
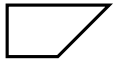
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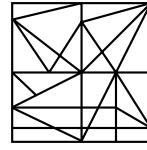
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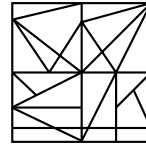
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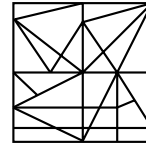
A



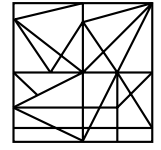
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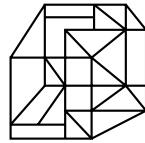
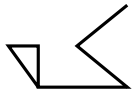


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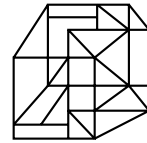


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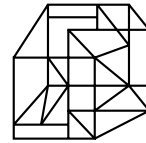
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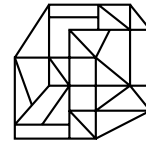
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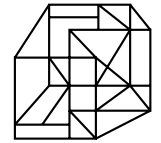
B



C



D



E

End of Spatial Reasoning Sub-test 3

# 11+ West Midlands Session 1 - Test 3 English

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## Instructions:

1. Do not turn over this page until instructed to do so.
2. This is a Reading Comprehension test.
3. The test begins with a practice section.
4. The practice section contains one passage with two practice questions.
5. The practice section is followed by the 10 main questions.
6. Total time for the test is 15 minutes.
7. Work quickly and carefully through the questions.
8. If you finish early, go back and check your work.
9. This is a multiple-choice test. Each question carries 1 mark.



## English - Practice Section

### *Reading Comprehension*

*Read this passage carefully, then answer the questions that follow.*

## **Soviet spacecraft launched over 50 years ago is heading to Earth**

1. A piece of a Soviet spacecraft launched in 1972 is expected to crash back down to Earth very soon, experts say. The part, which is from the Cosmos 482 probe, was meant to land on the planet Venus.

- While it made it into space successfully, the spacecraft wasn't able to complete its
5. journey after something went wrong. Most of the remains of the rocket eventually came back to Earth within the 10 years that followed. But one final section, which experts say is the landing capsule or lander module, ended up stuck in space. It's now been there for 53 years.



*Please answer these questions. (Look at the passage again if you need to.) You should choose the **best** answer and mark its letter on your answer sheet.*

**P1**

Which statements about the Soviet spacecraft are supported by the passage?

Choose TWO.

- 1 It was launched in 1962
- 2 It was intended to land on Venus
- 3 The entire spacecraft returned to Earth
- 4 Part of it has been in space for over 53 years
- 5 It was successfully repaired after something went wrong

- A** 1 and 3
- B** 1 and 4
- C** 2 and 4
- D** 2 and 5
- E** 3 and 5

**P2**

What does the word “probe” most likely mean in the context of this passage?

- A** An investigation or inquiry
- B** A surgical instrument
- C** A stick used for measuring
- D** A test or examination
- E** A spacecraft designed to explore space

**This is the end of the English practice section.**



## English

*This section is **marked**.*

### **Reading Comprehension**

*Read this passage carefully, then answer the questions that follow.*

### **Did the Egyptians use a lift to build a pyramid?**

*This article provides information about a new theory concerning how the ancient Egyptian pyramids were built.*

1. The pyramids of Egypt were built thousands of years ago - but how they were put together has baffled scientists for a long time.

However, experts now think they might have solved the mystery. A new study suggests that the ancient Egyptians used a water 'lift' inside the pyramid. This

5. would have helped raise the heavy stones through the chamber like magma moving up a volcano.

The Step Pyramid of Djoser is considered to be the oldest pyramid in Egypt and was built more than 4,500 years ago. Located just south of the country's capital Cairo, it rises in six stepped layers to an impressive height of 62.5 metres.

10. Now a team of French researchers believe they might have worked out how the huge pyramid was built. Experts looked at the landscape around the pyramid as well as the tunnels and interior of the structure and say they have found evidence that the ancient Egyptians might have used a water-based system. They suggest that a nearby stone structure called Gisir el-Mudir - was designed to capture water
15. from the surrounding area and transport it into the pyramid.

Once inside, a float system was used which would see rising water levels lift the



- float, which could carry the heavy stones up through the inside of the pyramid, to where they were needed. The ancient Egyptians were experts at construction because they were very inventive and experts think this could have helped them
20. come up with the clever idea!

- The pyramids of Egypt are some of the wonders of the world. Most of the pyramids were built as tombs - the final resting places for Egypt's royalty who took all their worldly possessions with them. The pyramids were ordered by the kings of ancient Egyptian society called Pharaohs. They found the best engineers and architects
25. to help design and build the monuments. The most famous is the Great Pyramid of Giza at 480 feet high made from 2.3 million large blocks!



*Please answer these questions. (Look at the passage again if you need to.)  
You should choose the **best** answer and mark its letter on your answer sheet.*

1

In the sentence “However, experts now think they might have solved the mystery”, what is the function of the word “However”?

- A To introduce a contrasting idea
- B To emphasise a point
- C To indicate a sequence of events
- D To show cause and effect
- E To provide additional information

2

What does the word “baffled” mean in the context of the passage? (line 2)

- A Amused
- B Confused
- C Angered
- D Inspired
- E Malnourished



3

**How tall is the Step Pyramid of Djoser?**

- A 480 feet
- B 62.5 metres
- C 2.3 million blocks
- D Approximately six storeys
- E Not mentioned in the passage

4

**Who ordered the building of the pyramids in ancient Egypt?**

- A Pharaohs
- B Engineers and architects
- C French researchers
- D Scientists
- E The people of Cairo

5

**According to the passage, what specific evidence supports the water lift theory?**

- A Ancient Egyptian drawings showing the system
- B The testimony of archaeological experts
- C Written records from the time of construction
- D Tools found inside the pyramid
- E The tunnels and interior structure of the pyramid



6

Which of the following facts about the Great Pyramid of Giza is supported by the text?

- A It was built before the Step Pyramid of Djoser
- B It stands 480 feet high
- C It was discovered by French researchers
- D It contains a water lift system
- E It is located in Cairo

7

Based on the passage, what can be inferred about the ancient Egyptians?

- A They were primitive in their building techniques
- B They relied primarily on slave labour
- C They were innovative and skilled engineers
- D They had help from other civilisations
- E They built pyramids mainly for religious purposes



**8** How does the passage characterise the French research team?

- A** As sceptical of traditional theories
- B** As pioneers, making a groundbreaking discovery
- C** As investigators proposing a new possible explanation
- D** As competitors with other archaeological teams
- E** As critics of ancient Egyptian engineering

**9** What analogy does the author use to help readers understand how the water lift system might have worked?

- A** Like a modern elevator system
- B** Like water flowing down a river
- C** Like a float in a swimming pool
- D** Like magma moving up a volcano
- E** Like a dam storing water



**10** Which statements about the researchers' theory can be inferred from the passage?

Choose TWO.

- 1 The theory is widely accepted by all archaeologists
- 2 The theory is based on the examination of physical evidence
- 3 The theory suggests Egyptians had knowledge of hydraulic systems
- 4 The theory proves definitively how the pyramids were built
- 5 The theory contradicts all previous explanations

**A** 1 and 3

**B** 1 and 5

**C** 2 and 3

**D** 2 and 4

**E** 4 and 5

# 11+ West Midlands

## Session 1 - Test 4

### Maths

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#### Instructions:

1. **Do not turn over this page** until instructed to do so.
2. The test begins with a practice section.
3. The practice section includes 3 questions.
4. The practice section is followed by the main questions.
5. Total time for the test is **15 minutes**.
6. Work quickly and carefully through the questions.
7. If you finish early, go back and check your work.
8. This is a **multiple-choice test**. Each question carries **1 mark**.



## Maths: Practice Section (5 mins)

*Try practice questions below. Work out the correct answer and mark it on the answer sheet.*

**P1** Select the three prime numbers which multiply to make 455.

**A** 5, 11, 13

**B** 7, 11, 13

**C** 5, 7, 13

**D** 7, 13, 19

**E** 11, 13, 17

**P2** Each teacher paid £1.20 and each pupil paid 15 p at the school exhibition. There were four times as many pupils as teachers.

**How many pupils attended if the receipts totalled £18?**

**A** 42

**B** 40

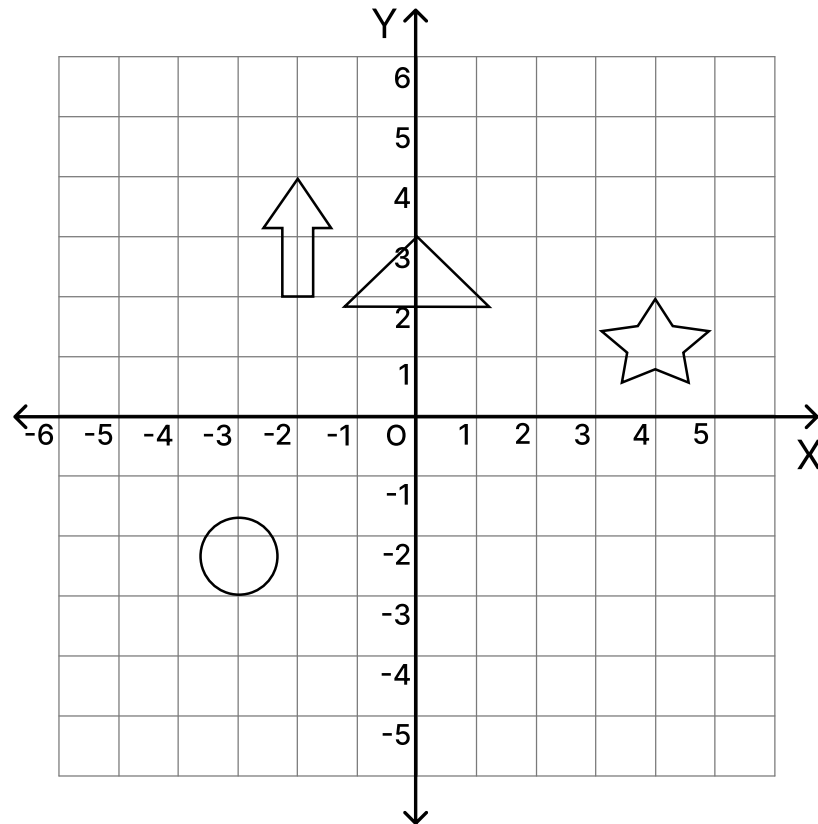
**C** 46

**D** 48

**E** 43



**P3** The diagram shows different shapes plotted on a coordinate grid.



What are the coordinates of the tip of the arrow?

- A** (-2, 4)      **B** (-2, -4)      **C** (4, -2)      **D** (2, -4)      **E** (4, 2)

This is the end of the Maths practice section.





## Maths

This section is **marked**.

1

The sum of two numbers is 60 and their difference is 24.

Find the numbers.

**A**  $x = 40$  and  $y = 16$

**B**  $x = 30$  and  $y = 30$

**C**  $x = 17$  and  $y = 43$

**D**  $x = 42$  and  $y = 18$

**E**  $x = 40$  and  $y = 20$

2

The table below shows the results of a survey in which 75 girls were asked what sport boys should play.

	Football	Rugby	Cricket
Total	30	27	18

What percentage of girls thought boys should play rugby?

**A** 32%

**B** 36%

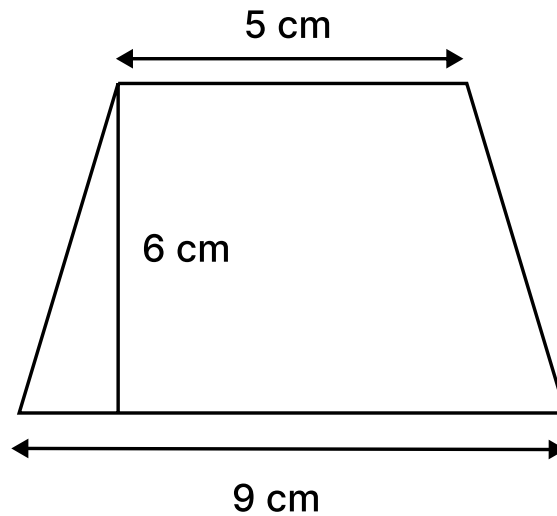
**C** 40%

**D** 38%

**E** 35%



**3** Find the area of the trapezium.



- A** 48 cm<sup>2</sup>      **B** 54 cm<sup>2</sup>      **C** 42 cm<sup>2</sup>      **D** 60 cm<sup>2</sup>      **E** 66 cm<sup>2</sup>

**4** What is the largest number that is a factor of both 72 and 120?

- A** 12      **B** 24      **C** 36      **D** 18      **E** 6

**5** Lucy is making orange squash using orange concentrate and water in the ratio of 2 : 9. Lucy has 80 ml of orange concentrate.  
What is the maximum volume of orange squash that can be made by her?

- A** 360 ml      **B** 400 ml      **C** 440 ml      **D** 480 ml      **E** 520 ml



6 420 attendees are surveyed about their preferred viewing method at a film festival.

- 40% say they prefer watching in the main theatre.
- One-fifth say they prefer the outdoor screening area.
- The rest choose the virtual streaming option.

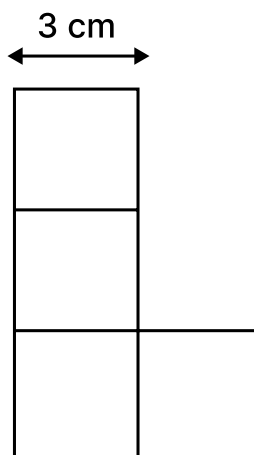
**How many attendees choose the virtual streaming option?**

- A 166      B 176      C 156      D 168      E 186

7 The chances of Olivia winning a swimming competition are 40%.  
**How many competitions is she likely to lose out of the 45 such competitions?**

- A 18      B 27      C 24      D 30      E 21

8 Sarah puts four identical tiles together to make the shape below.



**What is the perimeter of her shape?**

- A 26 cm      B 30 cm      C 34 cm      D 38 cm      E 42 cm



**9** In the last year, a museum acquired 183 new exhibits and removed 45 exhibits. There were 3678 exhibits in the museum at the end of the year.

**How many exhibits were in the museum at the start of the year?**

- A** 3450      **B** 3540      **C** 3630      **D** 3720      **E** 3816

**10** A passenger train of length 120 m approaches a bridge of length 180 m.

**How many seconds will it take the train to pass completely through the bridge at a speed of 15 m/s ?**

- A** 16 seconds      **B** 18 seconds      **C** 20 seconds  
**D** 22 seconds      **E** 24 seconds



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# West Midlands Paper 4 Session 1

## Answer Marking Sheet

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Pupil's Name
School Name

DATE OF TEST		
Day	Month	Year

UNIQUE PUPIL NUMBER									

SCHOOL NUMBER					

DATE OF BIRTH		
Day	Month	Year

Please mark boxes with a thin horizontal line like this  .

---



# Test 1 - Verbal Reasoning

## Sub-test 1

**EXAMPLE**

A

B

C

D

E

**P1**

**PRACTICE**

A

B

C

D

E

**1**

A

B

C

D

E

**2**

A

B

C

D

E

**3**

A

B

C

D

E

**4**

A

B

C

D

E

**5**

A

B

C

D

E

## Sub-test 2

**EXAMPLE**

A

B

C

D

E

**P2**

**PRACTICE**

A

B

C

D

E

**6**

A

B

C

D

E

**7**

A

B

C

D

E

**8**

A

B

C

D

E

**9**

A

B

C

D

E

**10**

A

B

C

D

E



## Sub-test 3

**EXAMPLE**

A

B

C

D

E

**P3**

**PRACTICE**

A

B

C

D

E

**11**

A

B

C

D

E

**12**

A

B

C

D

E

**13**

A

B

C

D

E

**14**

A

B

C

D

E

**15**

A

B

C

D

E

## Sub-test 4

**EXAMPLE**

A

B

C

D

E

**P4**

**PRACTICE**

A

B

C

D

E

**16**

A

B

C

D

E

**17**

A

B

C

D

E

**18**

A

B

C

D

E

**19**

A

B

C

D

E

**20**

A

B

C

D

E



# Test 2 - Non Verbal and Spatial Reasoning

## Sub-test 1

**EXAMPLE**

A

B

C

D

E

**P1**

**PRACTICE**

A

B

C

D

E

**1**

A

B

C

D

E

**2**

A

B

C

D

E

**3**

A

B

C

D

E

**4**

A

B

C

D

E

**5**

A

B

C

D

E

**6**

A

B

C

D

E

## Sub-test 2

**EXAMPLE**

A

B

C

D

E

**P2**

**PRACTICE**

A

B

C

D

E

**7**

A

B

C

D

E

**8**

A

B

C

D

E

**9**

A

B

C

D

E

**10**

A

B

C

D

E

**11**

A

B

C

D

E

**12**

A

B

C

D

E



## Sub-test 3

**EXAMPLE**

A

B

C

D

E

**P3**

**PRACTICE**

A

B

C

D

E

**13**

A

B

C

D

E

**14**

A

B

C

D

E

**15**

A

B

C

D

E

**16**

A

B

C

D

E

**17**

A

B

C

D

E

**18**

A

B

C

D

E



# Test 3 - English

**P1**

**PRACTICE**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**P2**

**PRACTICE**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**1**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**2**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**3**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**4**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**5**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**6**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**7**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**8**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**9**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**10**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>



# Test 4 - Maths

**P1**  
PRACTICE

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**P2**  
PRACTICE

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**P3**  
PRACTICE

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**1**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**2**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**3**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**4**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**5**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**6**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**7**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**8**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**9**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

**10**

A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

For Parents use only

Marks Scored: ----- Time taken: -----

Comments -----

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