London Consortium Mock 3 Part 1

First Name: ....

Last Name: ....

Primary School: ....

Date of Birth: ....

Today's Date: ....

This paper is divided into two parts.

Part 1 includes:
- Maths (20 minutes)
- Non-Verbal Reasoning (10 minutes)
- English Comprehension (20 minutes)
- Verbal Reasoning (10 minutes)

Break (30 minutes)

Part 2 includes:
- Puzzles & Problem Solving (15 minutes)
- Creative Comprehension (25 minutes)

Total test time: 100 minutes

London Consortium – Maths

Read the instructions carefully.

1. Do not turn the page until you are told to do so.

2. You may work the questions out in your head, or by working out on the white area around the question.

3. Work as quickly and carefully as you can.

4. Make any alterations to your answers **clearly**. You will not lose marks for crossing out.

5. You will have **20 minutes** to do this test. If you find you cannot do a question, do not waste time on it, but go on to the next one.

6. Once the test has begun, you should not ask about questions in the test.

7. The use of electronic calculators of any description (including smart watches) is **NOT** permitted.

Maths
(25 minutes)

Work out the correct answer and circle it on your paper.

1   Round 22.876 to 2 decimal places.

      A   22

      B   22.97

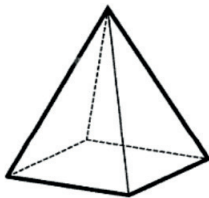   C   22.87

      D   22.88

      E   22.9

2   The diagram shows a square-based pyramid.

How many edges does the pyramid have?

      A   4

      B   5

      C   6

      D   7

      E   8

3   What is the product of 12 and 8.5?

A   102

B   108

C   98

D   102.5

E   100

4   Which is the smallest number?

0.4   ⅗   ⅔   0.25   ⁵⁄₁₀

A   0.4

B   ⅗

C   ⅔

D   0.25

E   ⁵⁄₁₀

5   A headteacher is arranging for the children to go to the theatre. They will hire minibuses to take the children to the theatre. Each bus takes 16 children. There are 150 children in total.

How many buses will the school need to take all the children to the theatre?

A   5

B   7

C   9

D   10

E   11

6   Jane is watching birds play in her garden. She noted that 3 out of 7 were pigeons. She recorded 42 birds in total.

How many birds were not pigeons?

A   10

B   15

C   18

D   24

E   30

7   A square of area 49cm², a square of perimeter 20cm and a square of area 9cm² are positioned next to each other, as shown below.
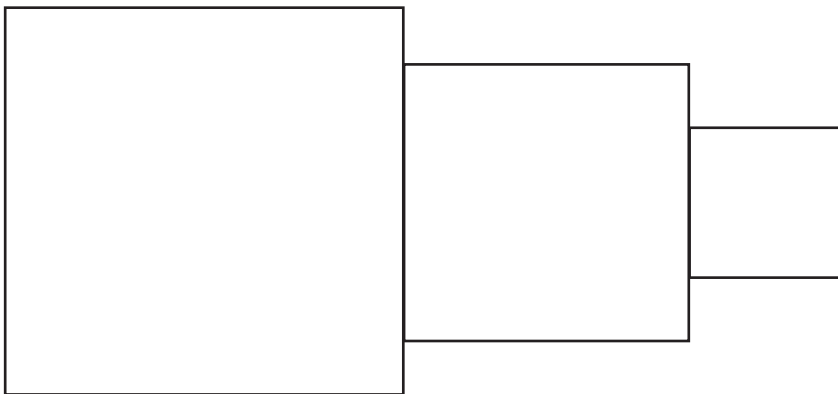
What is the perimeter of the new shape formed?

A   38cm

B   40cm

C   41cm

D   43cm

E   44cm

8 The hexagon is made up of 6 identical triangles.
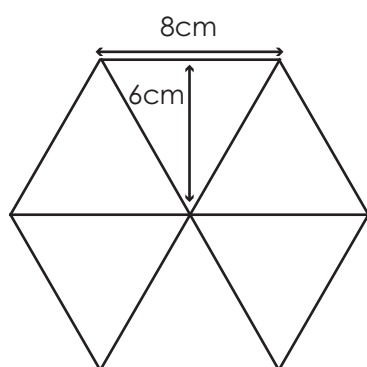
What is the area of the hexagon?

A   120cm²

B   144cm²

C   160cm²

D   220cm²

E   288cm²

9 75 children from across reception and Year 1 were asked what their favourite animal was.

	Reception	Year 1
Rabbit	12	8
Dog	?	37
Hamster	4	6

How many Reception children said that dogs were their favourite animal?

A   12

B   59

C   8

D   24

E   17

10 This is a coach timetable. **Use this table to answer questions 10 and 11.**

Explore Coaches – Daily Timetable (Monday – Friday)				
	Coach A	**Coach B**	**Coach C**	**Coach D**
Parkside	08:15	09:30	10:45	11:05
Riverview	08:45	10:00	11:15	11:37
Hilltop	09:10	10:30	11:40	12:15
Market Square	09:45	11:05	12:20	12:56

Liam wants to travel from Riverview to Market Square in the shortest possible time. Which coach should he take?

A   Coach A

B   Coach B

C   Coach C

D   Coach D

E   All coaches take the same amount of time.

11 If Coach D is delayed at Parkside by 7 minutes and delayed at Riverview by a further 6 minutes, what time will it arrive at Hilltop?

A   11:50

B   12:20

C   12:28

D   12:15

E   13:38

The graph below shows the number of books read in a month by a group of students. Use the graph to answer questions 12 – 14.

A graph to show average time to run 1km
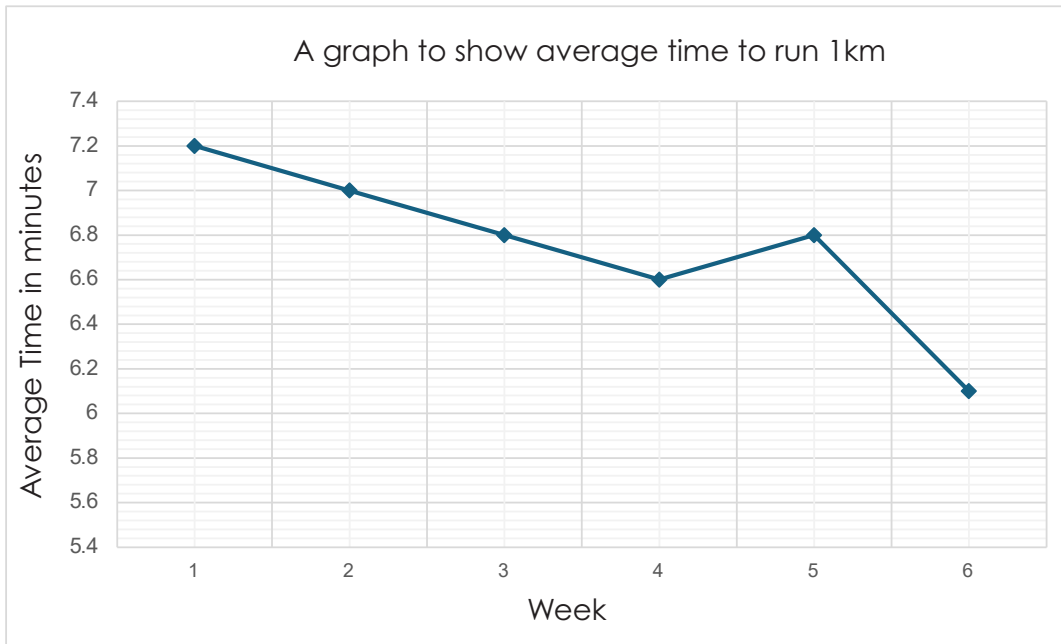
12   What was the average running time in week 4?

A   7.2 minutes

B   7 minutes

C   6.8 minutes

D   6.6 minutes

E   6.2 minutes

13   How many weeks had an average time less than 6.7 minutes?

A   1 week

B   2 weeks

C   3 weeks

D   4 weeks

E   5 weeks

14   What is the difference in average time for week 1 to week 6?

A   1 minute

B   1.1 minutes

C   0.6 minutes

D   1.2 minutes

E   1.8 minutes

15   Calculate 23.6 + 14.9 =

A   38.2

B   37.4

C   38.5

D   37.7

E   37.15

16 $(4X)^3 = 512$

What is the value of X?

A   2

B   4

C   8

D   16

E   20

17   A school has 480 pupils. 40% of the pupils are boys. 25% of the girls wear glasses. How many girls wear glasses?

A   72

B   192

C   288

D   55

E   98

18   A bag contains 4 red counters, 3 blue counters and 5 green counters. One counter is picked at random.

What is the probability that the counter is not green?

A $\frac{2}{6}$

B $\frac{5}{12}$

C $\frac{7}{12}$

D $\frac{3}{12}$

E $\frac{1}{3}$

19   Jasmine pours out 300ml of juice from a full jug. She has poured out $\frac{3}{8}$ of the juice in the jug. How much juice was in the jug to start with?

A   500ml

B   750ml

C   600ml

D   800ml

E   900ml

20   In a sweet shop, the ratio of chocolate bars to sweets is 3:5. If there are 120 sweets, how many chocolate bars are there?

    A   45

    B   60

    C   72

    D   75

    E   80

END OF MATHS TEST

London Consortium – NVR

Read the instructions carefully.

1. Do not turn the page until you are told to do so.

2. You may work the questions out in your head, or by working out on the white area around the question.

3. Work as quickly and carefully as you can.

4. Make any alterations to your answers **clearly**. You will not lose marks for crossing out.

5. You will have **<u>10 minutes</u>** to do this test. If you find you cannot do a question, do not waste time on it, but go on to the next one.

6. Once the test has begun, you should not ask about questions in the test.

Non-Verbal Reasoning
(10 minutes)

Circle the correct answer on this paper.

Which figure should fill the empty square?

1
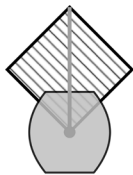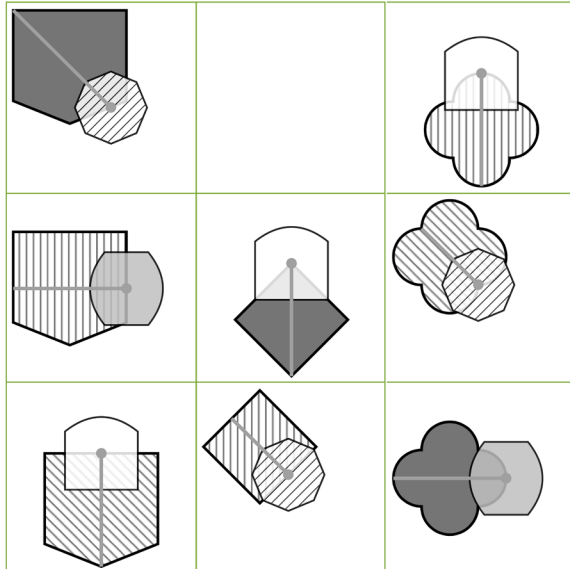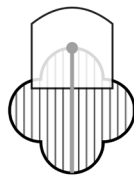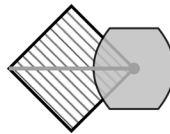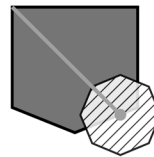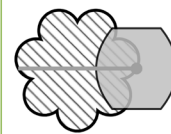
| a | b | c | d | e |

2
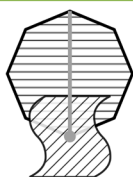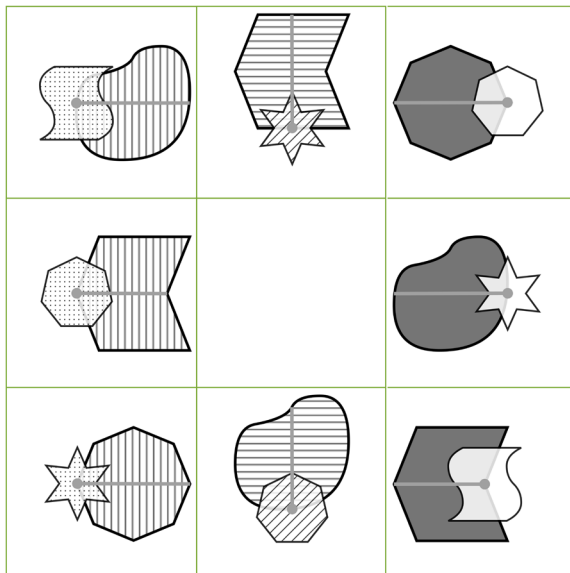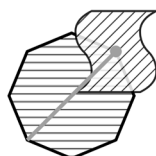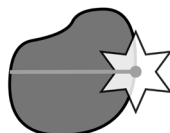
| a | b | c | d | e |

3

a   b   c   d   e

4

a   b   c   d   e

5
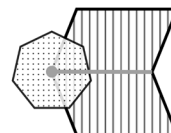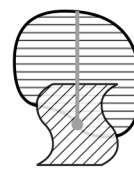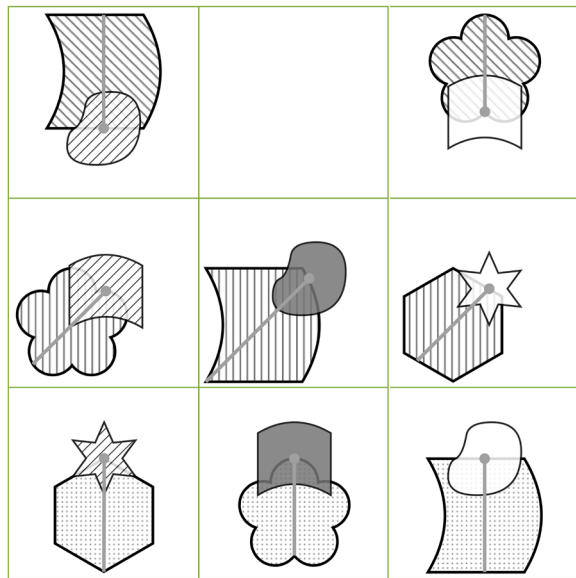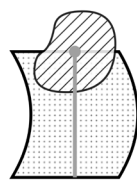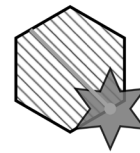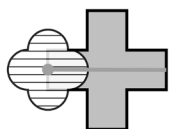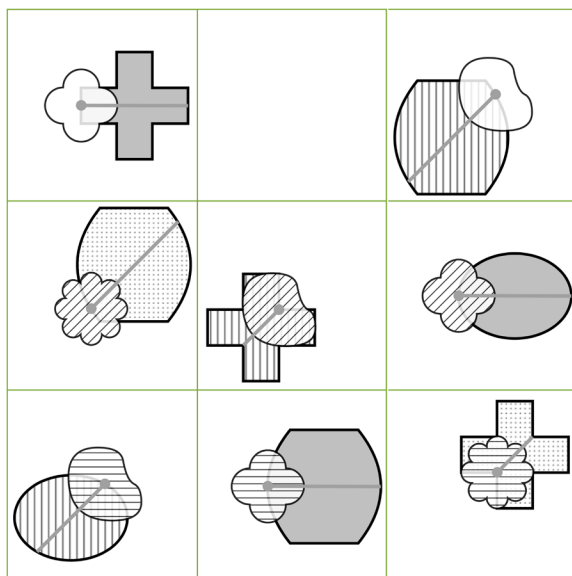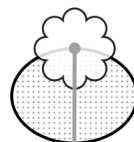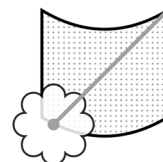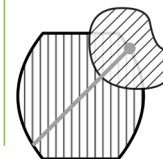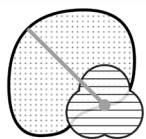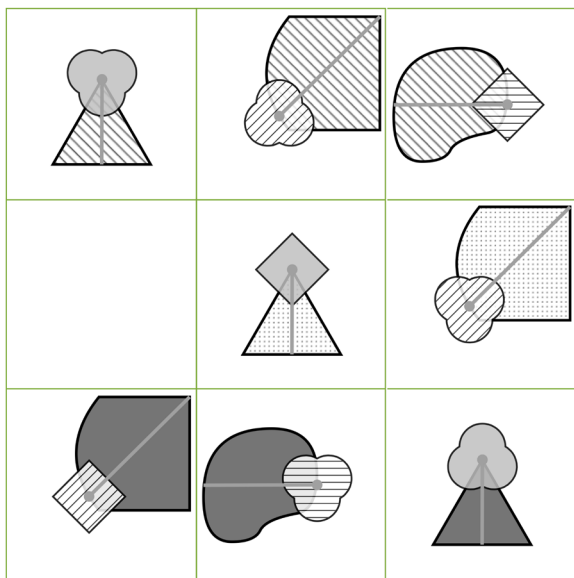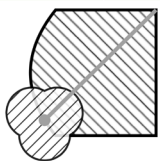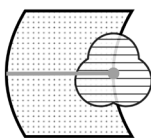
Choose the figure that is the odd one out.

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
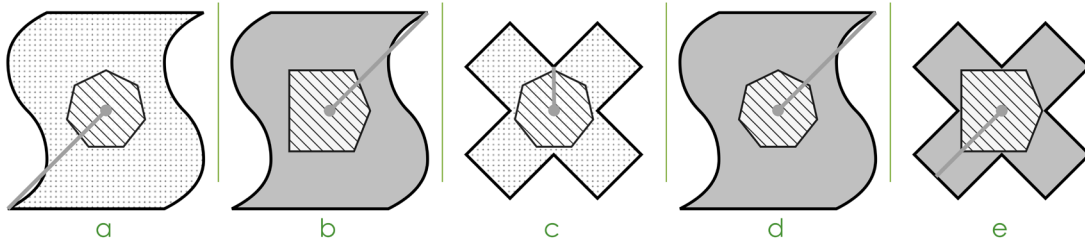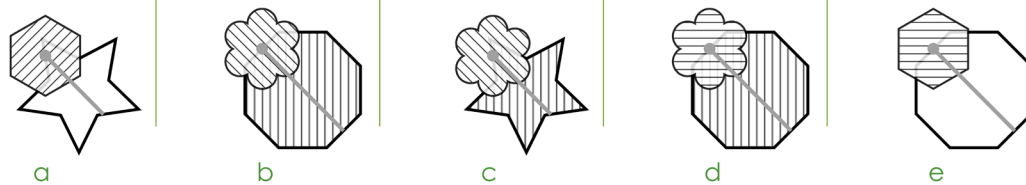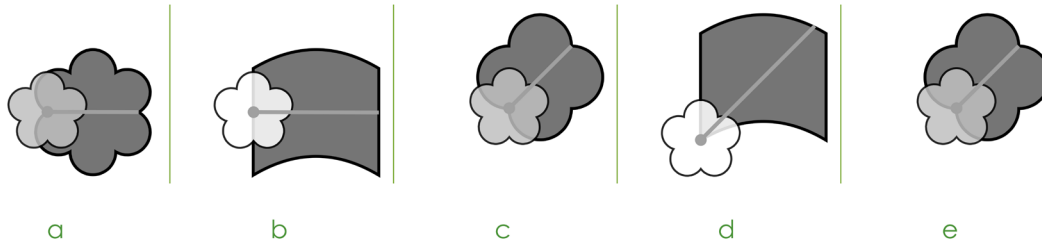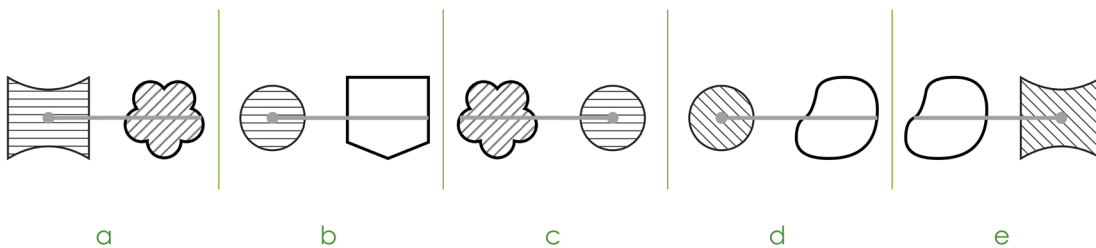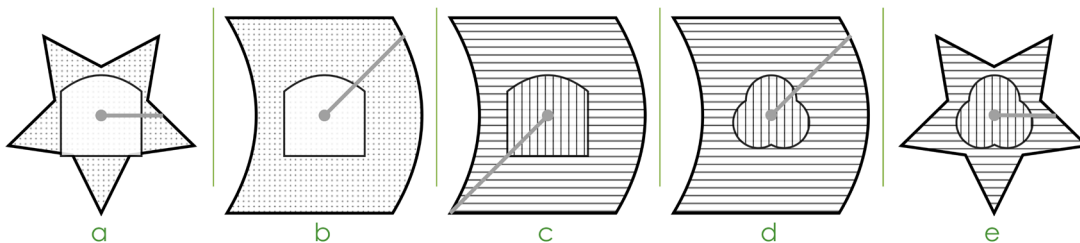
What is the missing code?

11
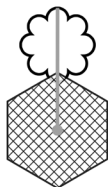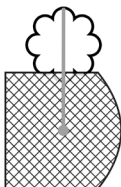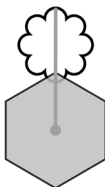
WO   XO   WP   ??
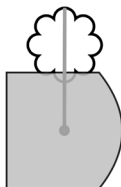
a. WO   b. WP   c. XQ   d. XP   e. XO

12

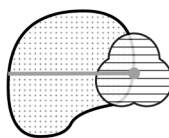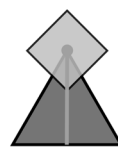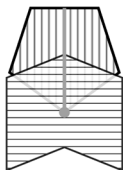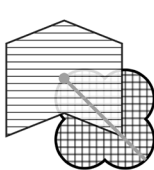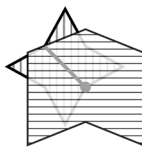UXA   VXB   VYC   WXB   ???
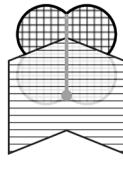
a. WYA   b. VYA   c. VXC   d. VYB   e. UYA

13
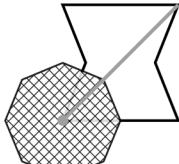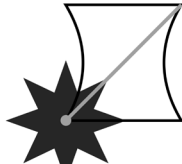
QXIC   RXJD   SYID   ????

a. QYID   b. RYJD   c. QYJD   d. SYJD   e. RYID

14
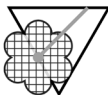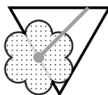
WO   XP   WP   ??

a. YP   b. XO   c. XP   d. WP   e. WO

15
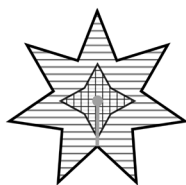
| XIR | XJS | YIS | ??? |
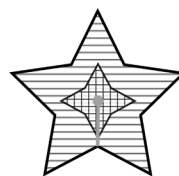
a. XJR   b. YJS   c. XIS   d. YJR   e. YIR

Choose the figure that is most similar to the figures in the question.

16
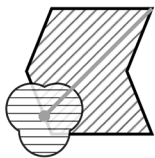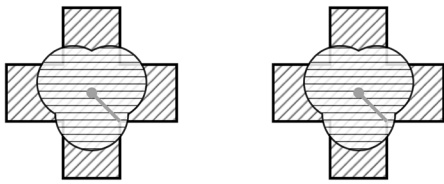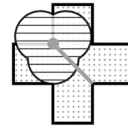
| a | b | c | d | e |

17

| a | b | c | d | e |

18

| a | b | c | d | e |

19

| a | b | c | d | e |

20
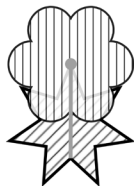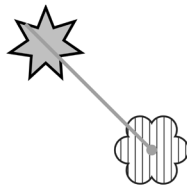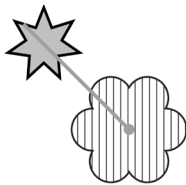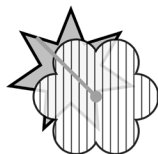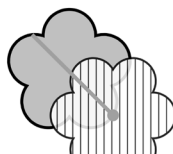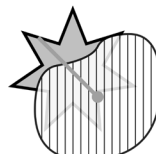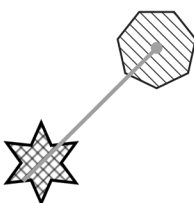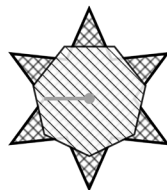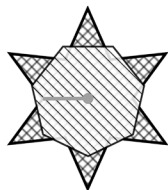
| a | b | c | d | e |
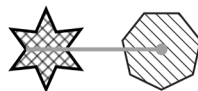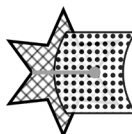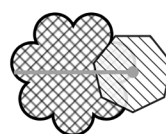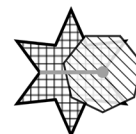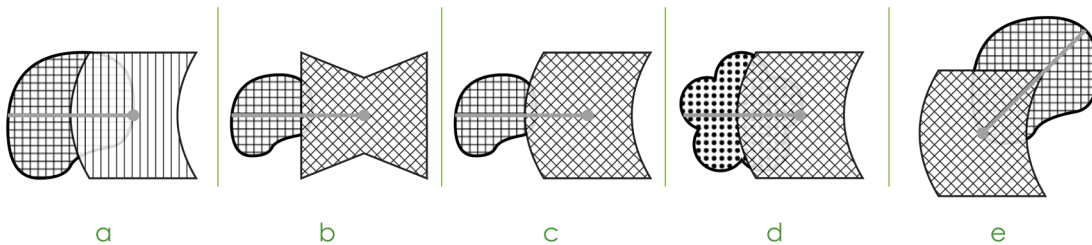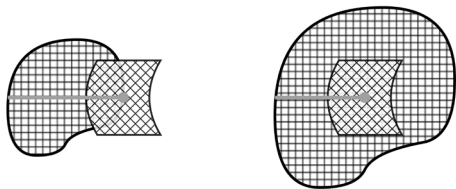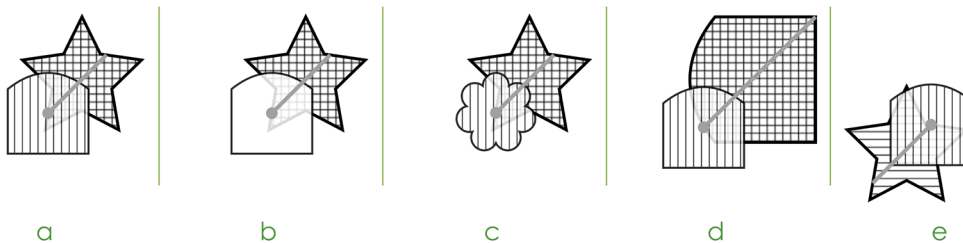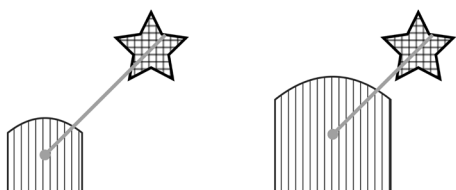
END OF NVR TEST

London Consortium – English

Read the instructions carefully.

1. The English paper is split into **two sections.**

2. First, there is a reading comprehension.

3. Read the passage and then answer the multiple-choice questions.

4. Select one answer for each question.

5. Second, there are some questions testing spelling and grammar.

6. Each question will give instructions on what you need to do.

7. Select one answer for each question.

8. Do not turn the page until you are told to do so.

9. Work as quickly and carefully as you can.

10. You will have **20 minutes** to do this test. If you find you cannot do a question, do not waste time on it, but go on to the next one.

English

(20 minutes)

Read this passage carefully and then answer the questions that follow.

The Wonderful Wizard of Oz by L. Frank Baum

All this time Dorothy and her companions had been walking through the thick woods. The road was still paved with yellow brick, but these were much covered by dried branches and dead leaves from the trees, and the walking was not at all good.

There were few birds in this part of the forest, for birds love the open country where there
5   is plenty of sunshine. But now and then there came a deep growl from some wild animal hidden among the trees. These sounds made the little girl's heart beat fast, for she did not know what made them; but Toto knew, and he walked close to Dorothy's side, and did not even bark in return.

"How long will it be," the child asked of the Tin Woodman, "before we are out of the
10   forest?"

"I cannot tell," was the answer, "for I have never been to the Emerald City. But my father went there once, when I was a boy, and he said it was a long journey through a dangerous country, although nearer to the city where Oz dwells the country is beautiful. But I am not afraid so long as I have my oil-can, and nothing can hurt the Scarecrow,
15   while you bear upon your forehead the mark of the Good Witch's kiss, and that will protect you from harm."

"But Toto!" said the girl anxiously. "What will protect him?"

"We must protect him ourselves if he is in danger," replied the Tin Woodman.

Just as he spoke there came from the forest a terrible roar, and the next moment a great
20   Lion bounded into the road. With one blow of his paw he sent the Scarecrow spinning over and over to the edge of the road, and then he struck at the Tin Woodman with his sharp claws. But, to the Lion's surprise, he could make no impression on the tin, although the Woodman fell over in the road and lay still.

Little Toto, now that he had an enemy to face, ran barking toward the Lion, and the great
25   beast had opened his mouth to bite the dog, when Dorothy, fearing Toto would be killed, and heedless of danger, rushed forward and slapped the Lion upon his nose as hard as she could, while she cried out:

"Don't you dare to bite Toto! You ought to be ashamed of yourself, a big beast like you, to bite a poor little dog!"
30   "I didn't bite him," said the Lion, as he rubbed his nose with his paw where Dorothy had hit it.

"No, but you tried to," she retorted. "You are nothing but a big coward."

"I know it," said the Lion, hanging his head in shame. "I've always known it. But how can I help it?"

35 "I don't know, I'm sure. To think of your striking a stuffed man, like the poor Scarecrow!"

"Is he stuffed?" asked the Lion in surprise, as he watched her pick up the Scarecrow and set him upon his feet, while she patted him into shape again.

"Of course he's stuffed," replied Dorothy, who was still angry.

"That's why he went over so easily," remarked the Lion. "It astonished me to see him whirl
40 around so. Is the other one stuffed also?"

"No," said Dorothy, "he's made of tin." And she helped the Woodman up again.

"That's why he nearly blunted my claws," said the Lion. "When they scratched against the tin it made a cold shiver run down my back. What is that little animal you are so tender of?"

45 "He is my dog, Toto," answered Dorothy.

"Is he made of tin, or stuffed?" asked the Lion.

"Neither. He's a—a—a meat dog," said the girl.

"Oh! He's a curious animal and seems remarkably small, now that I look at him. No one would think of biting such a little thing, except a coward like me," continued the Lion
50 sadly.

"What makes you a coward?" asked Dorothy, looking at the great beast in wonder, for he was as big as a small horse.

"It's a mystery," replied the Lion. "I suppose I was born that way. All the other animals in the forest naturally expect me to be brave, for the Lion is everywhere thought to be the
55 King of Beasts. I learned that if I roared very loudly every living thing was frightened and got out of my way. Whenever I've met a man I've been awfully scared; but I just roared at him, and he has always run away as fast as he could go. If the elephants and the tigers and the bears had ever tried to fight me, I should have run myself – I'm such a coward; but just as soon as they hear me roar they all try to get away from me, and of course I let
60 them go."

"But that isn't right. The King of Beasts shouldn't be a coward," said the Scarecrow.

"I know it," returned the Lion, wiping a tear from his eye with the tip of his tail. "It is my great sorrow, and makes my life very unhappy. But whenever there is danger, my heart begins to beat fast."

65 "Perhaps you have heart disease," said the Tin Woodman.

"It may be," said the Lion.

"If you have," continued the Tin Woodman, "you ought to be glad, for it proves you have a heart. For my part, I have no heart; so I cannot have heart disease."

"Perhaps," said the Lion thoughtfully, "if I had no heart I should not be a coward."

70 "Have you brains?" asked the Scarecrow.

"I suppose so. I've never looked to see," replied the Lion.

"I am going to the Great Oz to ask him to give me some," remarked the Scarecrow, "for my head is stuffed with straw."

"And I am going to ask him to give me a heart," said the Woodman.

75 "And I am going to ask him to send Toto and me back to Kansas," added Dorothy.

"Do you think Oz could give me courage?" asked the Cowardly Lion.

Answer these questions. Look at the passage again if you need to. You should choose the best answer and circle it on your paper.

1   According to the text, what made walking along the yellow brick road difficult for Dorothy and her companions?

        A   The road was too steep.

        B   There were large holes in the road.

        C   The road was covered in branches and leaves.

        D   It was raining heavily.

        E   The road was very narrow.

2   Why were there few birds in this part of the forest?

        A   They had all flown south.

        B   The forest was too noisy.

        C   There were too many predators.

        D   They prefer open, sunny areas.

        E   It was too cold for them.

3   What does this phrase suggest about the way Dorothy is feeling?
        These sounds made the little girl's heart beat fast, for she did not know what made them. (Lines 6 & 7)

        A   Dorothy is curious.

        B   Dorothy is full of excitement.

        C   Dorothy feels a sense of relief.

        D   Dorothy is filled with sadness.

        E   Dorothy is scared.

4   Which character has a father who once went to the Emerald City?

    A   Dorothy

    B   Toto

    C   The Tin Woodman

    D   The Lion

    E   The Scarecrow

5   What does the Tin Woodman say will protect Dorothy from harm?

    A   His oil can

    B   Her bravery

    C   Her shoes

    D   The Good Witch's kiss

    E   Nothing

6   Choose a synonym for the word '**bounded**', in the context of the passage.
    (Line 20)

    A   cried

    B   roared

    C   leaped

    D   lurked

    E   bundled

7   What might the phrase 'hanging his head in shame' suggest about the Lion?
(Line 33)

    A   He felt embarrassed.

    B   He felt sleepy.

    C   He was dizzy.

    D   He wanted to leave.

    E   He had to give up.

8   What is the quote below an example of?
'for he was as big as a small horse'
(Lines 51 & 52)

    A   Simile

    B   Metaphor

    C   Hyperbole

    D   Alliteration

    E   Personification

9   Choose an antonym for the word '**sorrow**', in the context of the passage.
(Line 63)

    A   Ambition

    B   Misery

    C   Anticipation

    D   Sadness

    E   Joy

10　　What theme is most strongly reflected in the Lion's character?

　　A　　Friendship and loyalty

　　B　　Anger vs. revenge

　　C　　Happiness and joy

　　D　　Courage vs. fear

　　E　　Isolation and loneliness

Spelling

In these sentences there are some **spelling** mistakes.

On each numbered line there is either **one** mistake or no mistake.

Find the group of words with the mistake in it and circle the letter. **If there is no mistake, circle 'N'.**

11　　Her conscience wouldn't　　allow her to lie,　　even to protect

A	B	C

a friend.

D	N

12　　The archeaologist made　　a remarkable discovery　　during the

A	B	C

remote excavation.

D	N

13　　His explanation was　　so full of inconsistenies　　that no one

A	B	C

believed him.

D	N

Punctuation

In these sentences there are some **punctuation** mistakes.

On each numbered line there is either **one** mistake or no mistake.

Find the group of words with the mistake in it and circle the letter. **If there is no mistake, circle 'N'.**

14   "I can't believe   we actually won   the competition?"

A	B	C

shouted Ben.

D	N

15   We visited four   cities in Italy   Rome, Florence, Milan

A	B	C

and Venice.

D	N

16   The chocolate cake   (which she baked   herself) was

A	B	C

absolutely delicious.

D	N

17   "Hurry up!"   she called,   the train's about   to leave!"

A	B	C	D	N

In these sentences there may be some **grammatical** mistakes.

On each numbered line there is either **one** mistake or no mistake.

Find the group of words with the mistake in it and circle the letter. **If there is no mistake, circle 'N'.**

18 I have ate   lunch already,   but I'm   still hungry.

A	B	C	D	N

19 There going   to the   park later   this afternoon.

A	B	C	D	N

20 She doesn't   like going   to the cinema   on weekends.

A	B	C	D	N

END OF ENGLISH TEST

London Consortium – VR

Read the instructions carefully.

1. Do not turn the page until you are told to do so.

2. You may work the questions out in your head, or by working out on the white area around the question.

3. Work as quickly and carefully as you can.

4. Make any alterations to your answers **clearly**. You will not lose marks for crossing out.

5. You will have **<u>10 minutes</u>** to do this test. If you find you cannot do a question, do not waste time on it, but go on to the next one.

6. Once the test has begun, you should not ask about questions in the test.

Verbal Reasoning
(10 minutes)

Three of the five words listed below are related in some way. Find the two words that do not go with these three. **Mark your answer on the answer sheet.**

1   (pentagon, rectangle, cuboid, sphere, rhombus)

      A. pentagon   B. rectangle   C. cuboid   D. sphere   E. rhombus

2   (they, hers, he, you, his)

      A. they   B. hers   C. he   D. you   E. his

3   (know, worth, wrong, gnat, grant)

      A. know   B. worth   C. wrong   D. gnat   E. grant

4   (fruit, apple, banana, orange, colourful)

      A. fruit   B. apple   C. banana   D. orange   E. colourful

In the sentences below, one word in capitals has had three consecutive letters taken out. These three letters on their own make one correctly spelt word, without changing the order. Choose the three-letter word from the options below. **Mark your answer on the answer sheet.**

5   To his **KLEDGE**, Perry hadn't done anything wrong.

      A. can   B. arc   C. now   D. ban   E. owl

6   They bought flowers and chocolates as a **PING** gift to their host family.

      A. art   B. ray   C. far   D. ea   E. had

7   Dylan was pleased to see that the trees were **GING** very well.

A. own   B. air   C. ape   D. row   E. ray

8   Jasmin tripped, and the glasses she was holding came **CRING** down to the ground.

A. pea   B. ash   C. awe   D. are   E. cry

In the questions below, find **two** words, **one** from each group, that together make **one** correctly spelt word, without changing the order of the letters. The word from the first group always comes first. Choose **both** words from the options below.

9   (label   crest   sand)   (tail   fallen   long)

A. label   X. tail

B. crest   Y. fallen

C. sand   Z. long

10   (under   sun   walk)   (cup   shore   growth)

A. under   X. cup

B. sun   Y. shore

C. walk   Z. growth

11   (learn   here   ten)   (after   grip   crow)

   A. learn   X. after

   B. here   Y. grip

   C. ten   Z. crow

12   (throw   along   turn)   (drink   table   book)

   A. throw   X. drink

   B. along   Y. table

   C. turn   Z. book

In the questions below, find one letter that will complete the word in front of the brackets and begin the word after the brackets. The same letter must fit into both sets of brackets. **Mark your answer on the answer sheet.**

13   SPIL (_____) EISURE   CUR (_____) OFTY

   A. T   B. E   C. L   D. U   E. B

14   SLEE (_____) ICK   SHRIN (_____) AYAK

   A. K   B. I   C. P   D. N   E. T

15   WHOLL (_____) ANK   SCANT (_____) IELD

   A. T   B. Y   C. E   D. F   E. S

16   WITHE (_____) URAL   WRITE (_____) ARE

   A. S   B. D   C. C   D. M   E. R

END OF VR TEST

Working Out Space

Working Out Space

END OF PART 1