

Aptitude Test Mock 1 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

Aptitude Test – Maths

Read the instructions carefully.

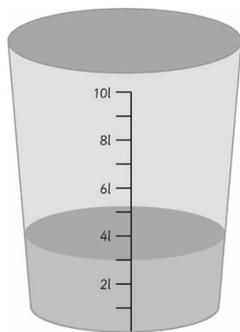
1. Do not turn the page until you are told to do so.
2. You may work the questions out in your head, or by working out on the white area around the question.
3. Work as quickly and carefully as you can.
4. Make any alterations to your answers **clearly**. You will not lose marks for crossing out.
5. 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
(20 minutes)

Circle the correct answer to each question in this paper.

- 1** A right-angled triangle has one angle that is 60 degrees. What are the other two angles?
- A All angles are 60°.
 - B 90° and 30°
 - C This cannot make a valid triangle.
 - D 210°
 - E 60° and 90°

- 2** Tariq adds 2500ml of water into this bucket. How many litres of water are in the bucket now?



- A 3,000ml
- B 4.5l
- C 5.5l
- D 7l
- E 5,500ml

3 Calculate the value of:

$$2 \frac{1}{2} - 1 \frac{3}{8} =$$

A $1 \frac{3}{4}$

B $1 \frac{1}{4}$

C 1

D $3 \frac{3}{4}$

E $2 \frac{1}{4}$

4 Which is the largest number?

$$0.27 \quad \frac{1}{2} \quad \frac{1}{5} \quad 0.52 \quad \frac{3}{5}$$

A 0.27

B $\frac{1}{2}$

C $\frac{1}{5}$

D 0.52

E $\frac{3}{5}$

5 Which number is closest to 0.19?

$$0.27 \quad \frac{1}{2} \quad \frac{1}{5} \quad 0.52 \quad \frac{3}{5}$$

A 0.27

B $\frac{1}{2}$

C $\frac{1}{5}$

D 0.52

E $\frac{3}{5}$

- 6 The total flying time from Abuja to New York via London is 15 hours. The section from Abuja to London takes 40% of the time. The flight takes off from Abuja at 10.20am.

Abuja is 1 hour ahead of London. What time does the flight land in London?

A 1:20am

B 6:20am

C 4:20pm

D 4:20am

E 3:20pm

- 7 There is a stopover in London of 3 hours. New York is 5 hours behind London. What time does the flight land in New York?

A 10:20pm

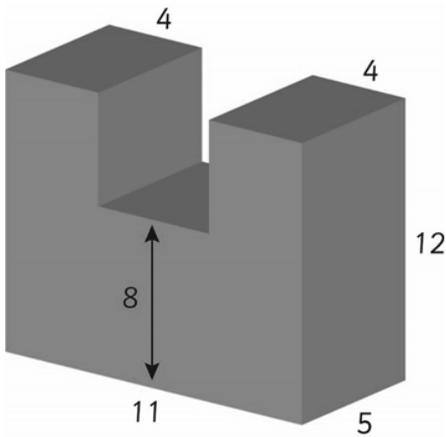
B 3:20am

C 4:20am

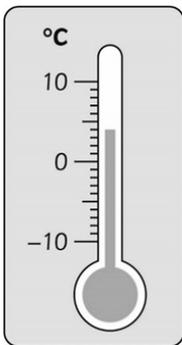
D 1:20am

E 8:20pm

- 8 What is the volume of this shape? (All measurements are in cm.)



- A 568cm^3
- B 800cm^3
- C 600cm^3
- D 660cm^3
- E $1,056\text{cm}^3$
- 9 Amy took the temperature at 10am, as seen on this thermometer. 13 hours later the temperature had reduced by 7 degrees. What was the temperature then?



- A 7°
- B -5°
- C -1°
- D -3°
- E 6°

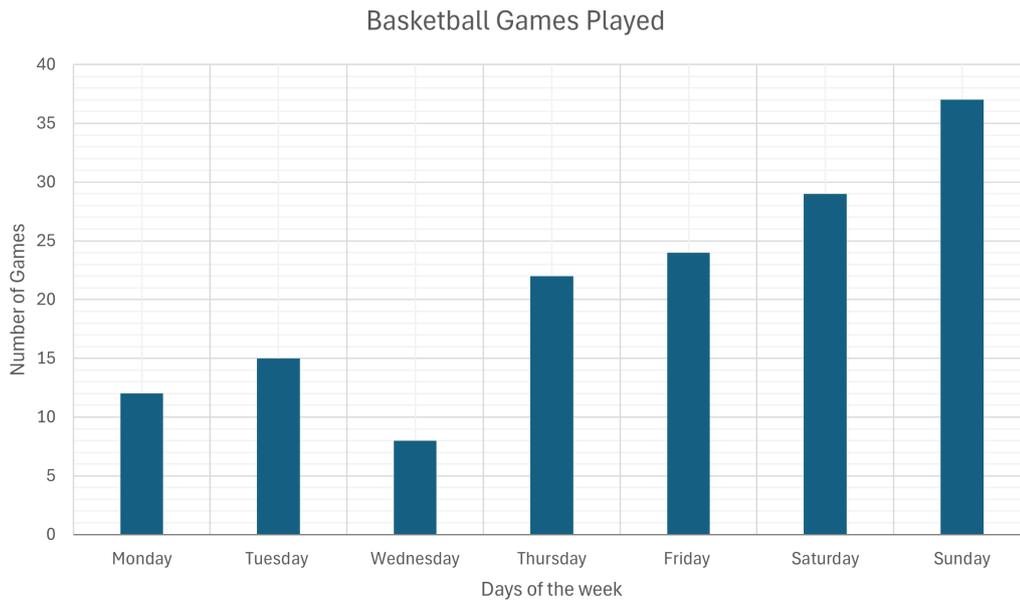
- 10 This is a train timetable for the Edinburgh to Kings Cross train.

Explore Travel – Train Timetable			
Edinburgh	05:58	08:25	09:45
Newcastle	07:42	10:10	11:30
Doncaster	09:16	11:42	13:13
Kings Cross	10:53	13:20	14:14

If the 05:58 left 17 minutes late, what time would passengers arrive at Doncaster?

- A 09:00
- B 07:52
- C 09:33
- D 10:33
- E 09:52
- 11 A replacement bus is needed for the 08:25 from Edinburgh between Newcastle and Doncaster. The bus takes 2 hours and 10 minutes. How late will the passengers arrive in Doncaster?
- A 0 minutes
- B 2 hours and 10 minutes
- C 12 minutes
- D 38 minutes
- E 1 hour and 10 minutes

The graph below shows the number of basketball games played at a leisure centre over a week. Use the graph to answer questions 12 – 14.



12 What was the total number of games at the weekend?

- A 66
- B 56
- C 90
- D 147
- E 27

13 What is the range between the numbers of games played across the week?

- A 34
- B 20
- C 147
- D 29
- E 37

14 What was the mean number of games played per day?

A 21

B 20

C 22

D 23

E 25

15 Calculate $17.3 + 12.9 =$

A 30.1

B 29.9

C 31.1

D 31.2

E 30.2

16 Calculate $7.2 \times 11.4 =$

A 82.08

B 82.0

C 87.2

D 82.8

E 87.02

17 Find 15% of 150.

A 12.5

B 22.5

C 1.5

D 19.5

E 15

18 Joao runs a restaurant. The first customer buys a biscuit, a banana and a bottle of water for £4. The second customer buys 2 bottles of water, a banana and a biscuit for £6. The third customer buys 2 biscuits, a banana and a bottle of water for £5.50.

How much does a biscuit cost?

A £1.50

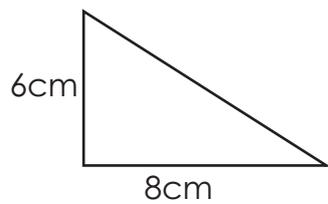
B £1.00

C £2.50

D £0.50

E £2.00

- 19 Calculate the area of this triangle.



- A 46cm^2
- B 32cm^2
- C 24cm^2
- D 16cm^2
- E 62cm^2
- 20 What is the value of p in $3p^2 = 108$?

- A 4
- B 9
- C 3
- D 6
- E 5

Aptitude Test – 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 **10 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.

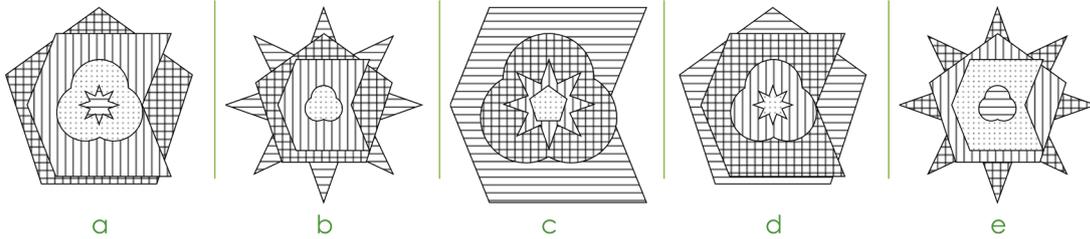
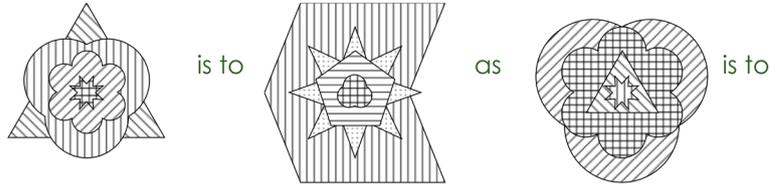
Non-Verbal Reasoning

(10 minutes)

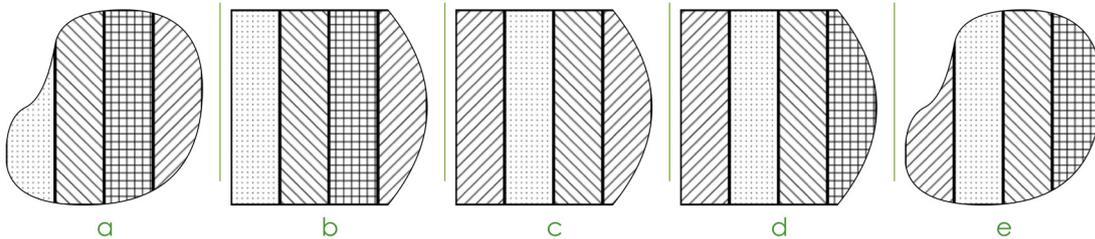
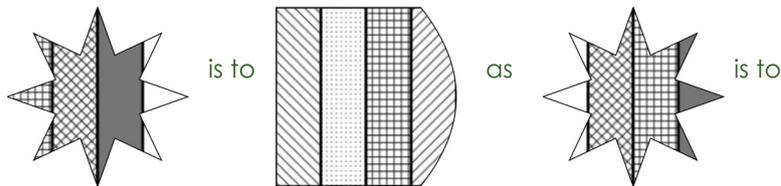
Circle the correct answer on this paper.

Choose the figure that completes the sentence in the best way.

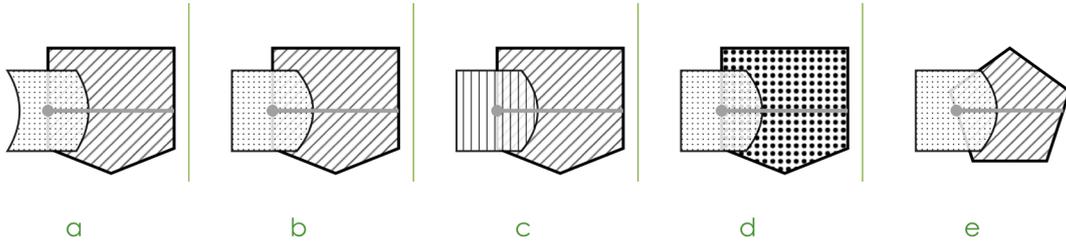
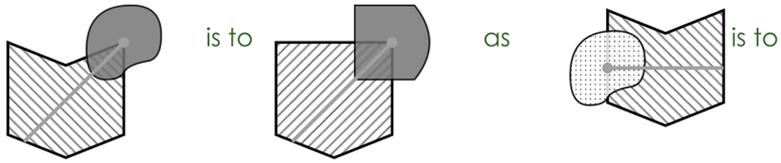
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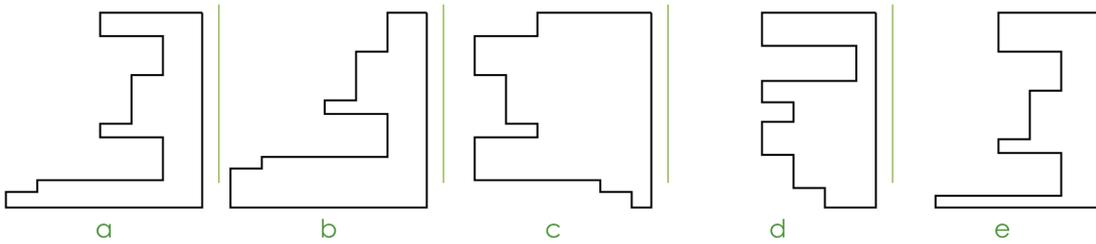
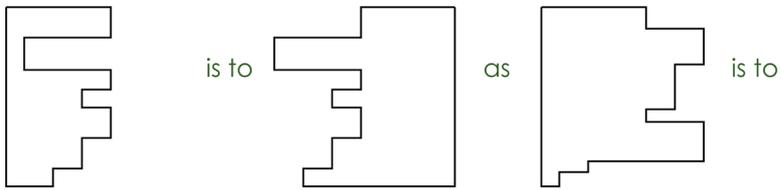
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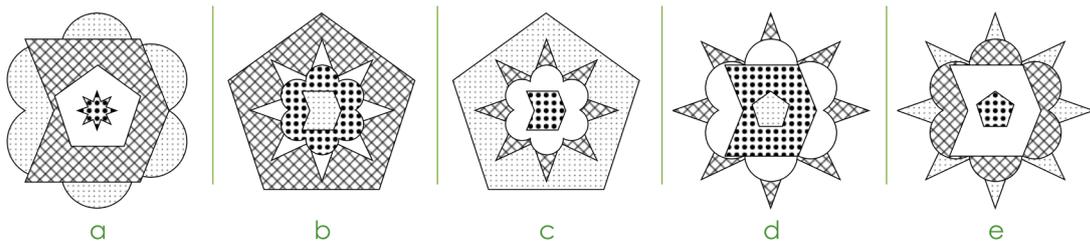
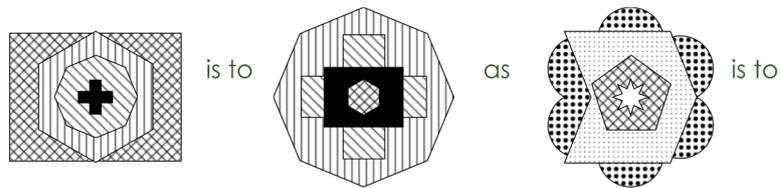
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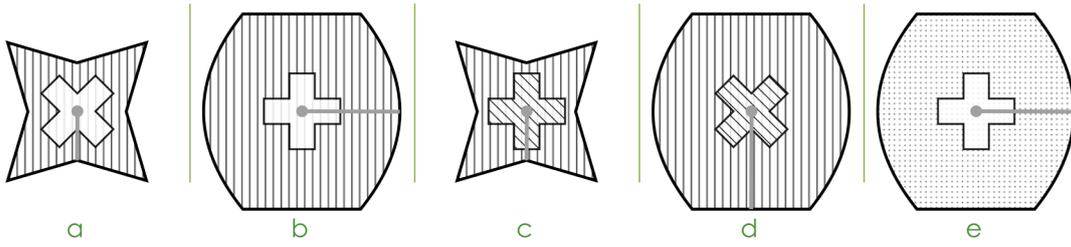


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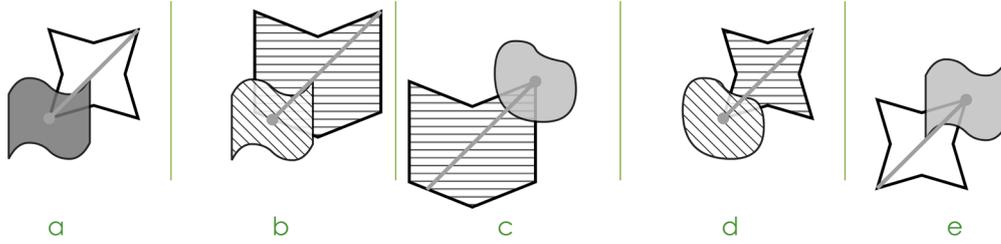


Choose the figure that is the odd one out.

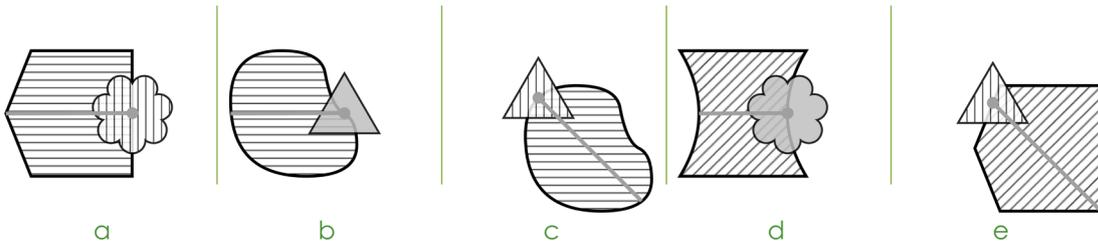
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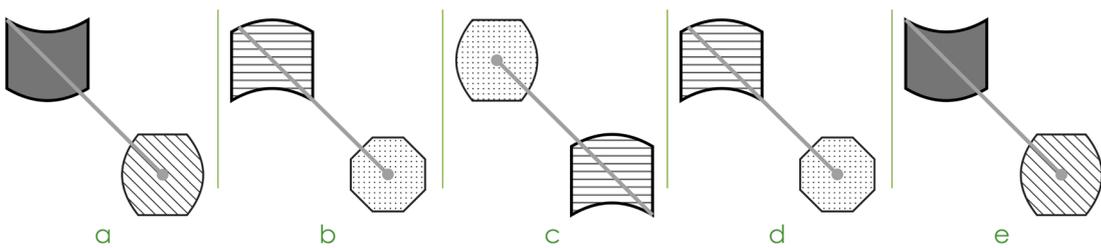
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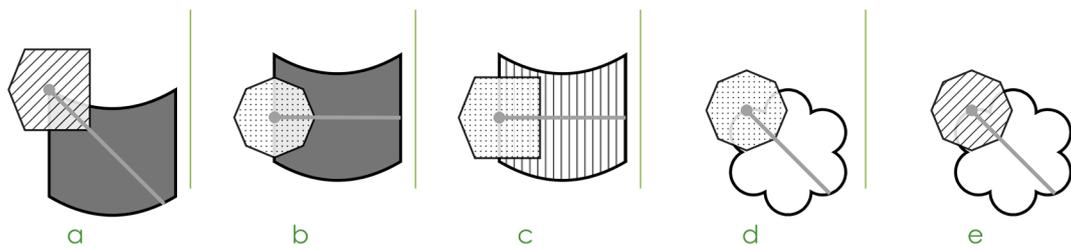
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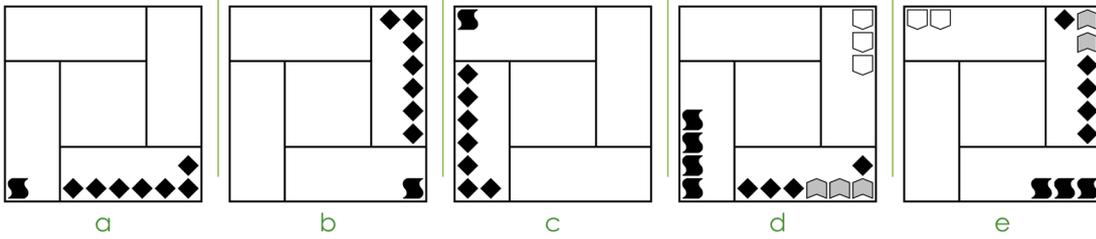
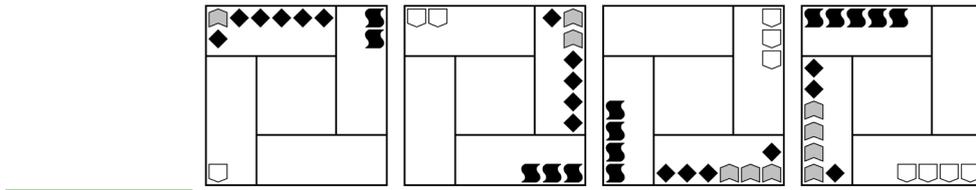


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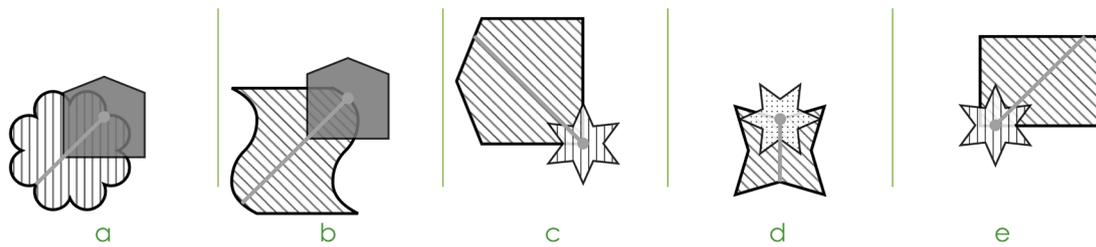
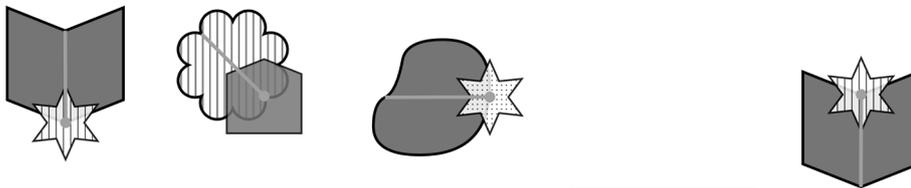


Choose the figure that completes the series.

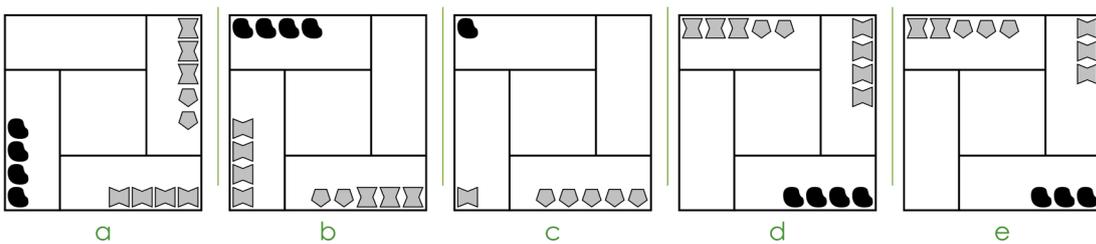
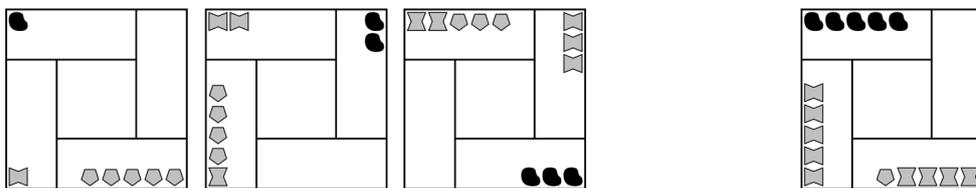
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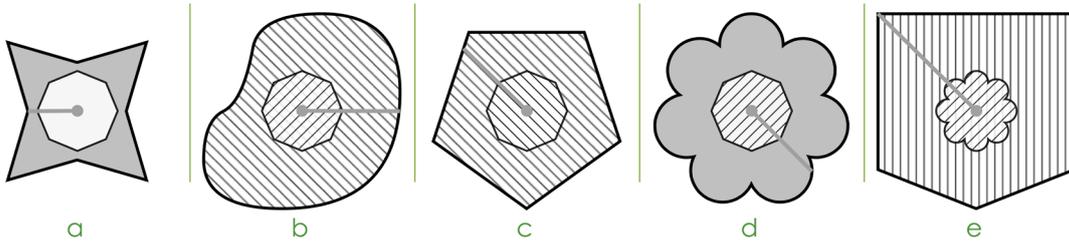
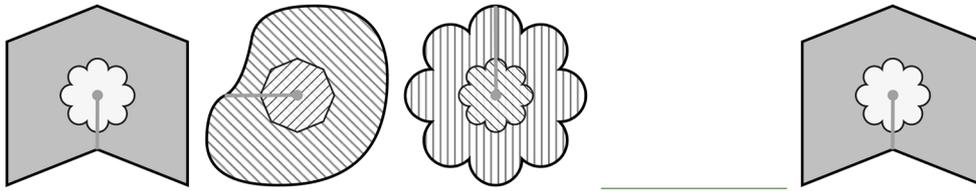
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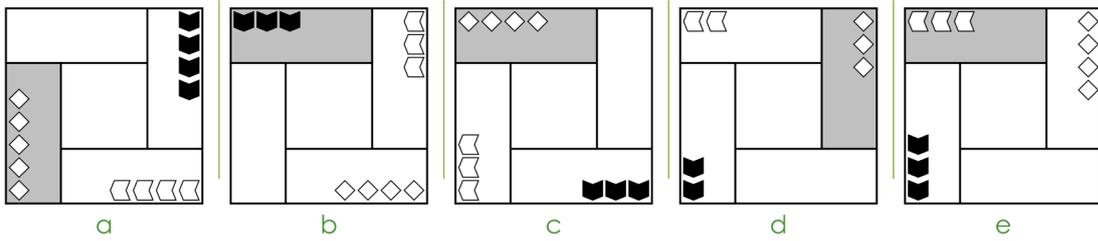
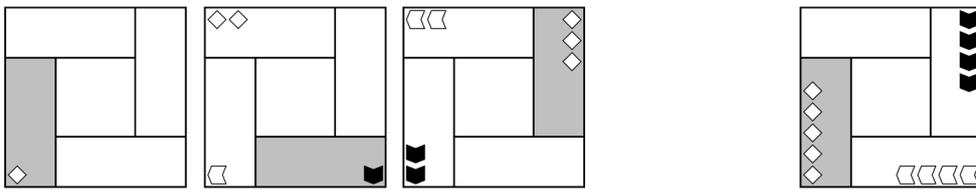
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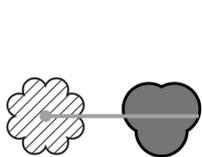
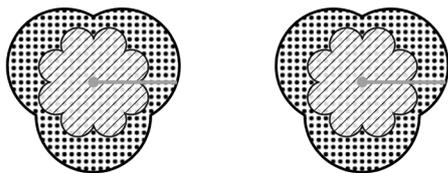


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Choose the figure that is most similar to the figures in the question.

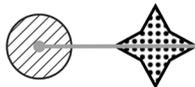
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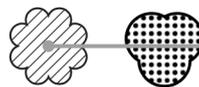
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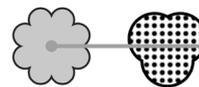
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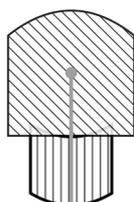
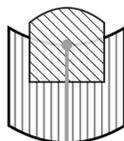
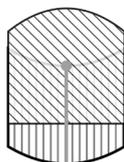


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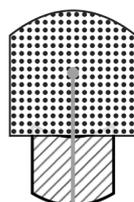


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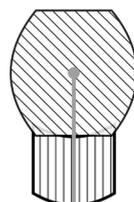
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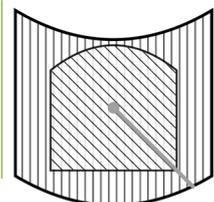
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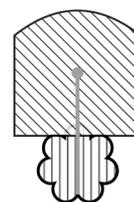
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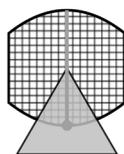
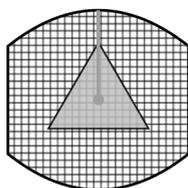


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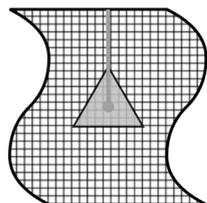


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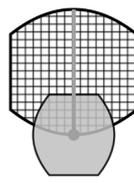
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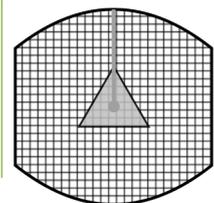
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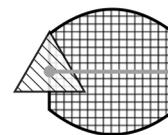
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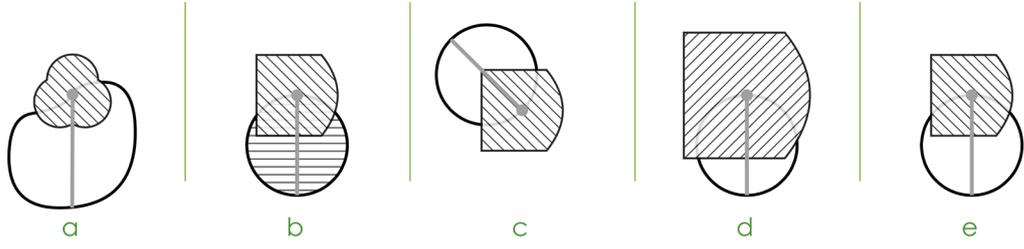
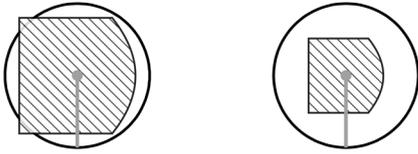


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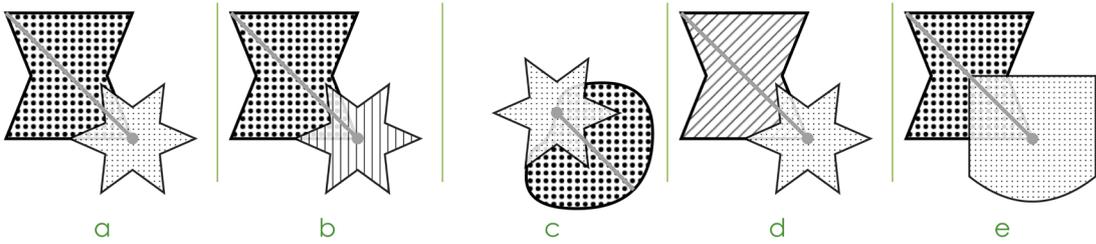
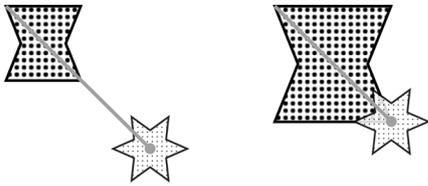


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19



20



END OF NVR TEST

Aptitude Test – 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.

***Treasure Island* by Robert Louis Stevenson**

The appearance of the island when I came on deck next morning was altogether changed. Although the breeze had now utterly ceased, we had made a great deal of way during the night and were now lying becalmed about half a mile to the south-east of the low eastern coast. Grey-coloured woods covered a large part of the surface. This even tint was indeed broken up by streaks of yellow sand-break in the lower lands, and by many tall trees of the pine family, out-topping the others—some singly, some in clumps; but the general colouring was uniform and sad. The hills ran up clear above the vegetation in spires of naked rock. All were strangely shaped, and the Spy-glass, which was by three or four hundred feet the tallest on the island, was likewise the strangest in configuration, running up sheer from almost every side and then suddenly cut off at the top like a pedestal to put a statue on.

The *Hispaniola* was rolling scuppers under in the ocean swell. The booms were tearing at the blocks, the rudder was banging to and fro, and the whole ship creaking, groaning, and jumping like a manufactory. I had to cling tight to the backstay, and the world turned giddily before my eyes, for though I was a good enough sailor when there was way on, this standing still and being rolled about like a bottle was a thing I never learned to stand without a qualm or so, above all in the morning, on an empty stomach.

Perhaps it was this—perhaps it was the look of the island, with its grey, melancholy woods, and wild stone spires, and the surf that we could both see and hear foaming and thundering on the steep beach—at least, although the sun shone bright and hot, and the shore birds were fishing and crying all around us, and you would have thought anyone would have been glad to get to land after being so long at sea, my heart sank, as the saying is, into my boots; and from the first look onward, I hated the very thought of *Treasure Island*.

We had a dreary morning's work before us, for there was no sign of any wind, and the boats had to be got out and manned, and the ship warped three or four miles round the corner of the island and up the narrow passage to the haven behind *Skeleton Island*. I volunteered for one of the boats, where I had, of course, no business. The heat was sweltering, and the men grumbled fiercely over their work. Anderson was in command of my boat, and instead of keeping the crew in order, he grumbled as loud as the worst. "Well," he said with an oath, "it's not forever."

I thought this was a very bad sign, for up to that day the men had gone briskly and willingly about their business; but the very sight of the island had relaxed the cords of discipline.

All the way in, Long John stood by the steersman and conned the ship. He knew the passage like the palm of his hand, and though the man in the chains got everywhere more water than was down in the chart, John never hesitated once.

“There’s a strong scour with the ebb,” he said, “and this here passage has been dug out, in a manner of speaking, with a spade.”

We brought up just where the anchor was in the chart, about a third of a mile from each shore, the mainland on one side and Skeleton Island on the other. The bottom was clean sand. The plunge of our anchor sent up clouds of birds wheeling and crying over the woods, but in less than a minute they were down again and all was once more silent. The place was entirely land-locked, buried in woods, the trees coming right down to high-water mark, the shores mostly flat, and the hilltops standing round at a distance in a sort of amphitheatre, one here, one there. Two little rivers, or rather two swamps, emptied out into this pond, as you might call it; and the foliage round that part of the shore had a kind of poisonous brightness. From the ship we could see nothing of the house or stockade, for they were quite buried among trees; and if it had not been for the chart on the companion, we might have been the first that had ever anchored there since the island arose out of the seas.

There was not a breath of air moving, nor a sound but that of the surf booming half a mile away along the beaches and against the rocks outside. A peculiar stagnant smell hung over the anchorage—a smell of sodden leaves and rotting tree trunks. I observed the doctor sniffing and sniffing, like someone tasting a bad egg.

“I don’t know about treasure,” he said, “but I’ll stake my wig there’s fever here.”

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

- 1 What is the position of the ship when Jim came on deck the next morning?
- A Anchored near the western coast.
 - B About half a mile to the south-east of the low eastern coast.
 - C Sailing swiftly along the northern shore.
 - D Docked at a bustling port.
 - E Moored beside a sandy beach.
- 2 Choose a synonym for the word '**becalmed**', in the context of the passage.
- A anchored
 - B stranded
 - C motionless
 - D damaged
 - E rapid
- 3 What does the phrase '**spires of naked rock**' suggest about the hills?
- A They are covered in thick vegetation.
 - B They are smooth and rounded.
 - C They are made of soft soil.
 - D They are covered in thick snow.
 - E They are tall, pointed and bare.

- 4 What is described in the extract as **'running up sheer from almost every side and then suddenly cut off at the top like a pedestal to put a statue on'**?
- A The grey-coloured woods
 - B The yellow sand-breaks
 - C The tall pine trees
 - D The Spy-glass hill
 - E The ship's mast
- 5 What can be inferred about the author's first impression of the island?
- A Excited and eager to explore.
 - B Indifferent and uninterested.
 - C Fearful and anxious.
 - D Disappointed by its size.
 - E Disgusted by the smell.
- 6 What is the quote below an example of?
'being rolled about like a bottle'
- A alliteration
 - B simile
 - C personification
 - D onomatopoeia
 - E metaphor

- 7 What was the crew's task on that morning?
- A Exploring the island and starting a fire.
 - B Repairing the ship and replenishing stock.
 - C Fishing for food.
 - D Boats manned and the ship warped.
 - E Mapping the coastline.
- 8 Who was in command of the boat the author worked on?
- A The captain
 - B The steersman
 - C Anderson
 - D John
 - E Jim
- 9 What does the word '**conned**' mean in the context:
'Long John stood by the steersman and conned the ship'?
- A deceived
 - B navigated
 - C repaired
 - D cleaned
 - E crashed

10 What action does the plunge of the anchor cause?

- A The birds to fly up over the woods.
- B Clouds of sand to engulf the boat.
- C The trees come down.
- D It turns the rivers into swamps.
- E It buries the house amongst the trees.

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 'None'.**

11 The politician's speech was filled with ambiguities that left

A	B	C
---	---	---

the audience confused.

D	None
---	------

12 *The miscellaneous items in the drawer included pens, paperclips*

A	B	C
---	---	---

and old receipts.

D	None
---	------

13 The entrepreneur launched a successful startup in the

A	B	C
---	---	---

technology industry.

D	None
---	------

In these sentences there may be 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 'None'.**

14 "Are we really going to climb that mountain," asked Sarah, her

A	B	C
----------	----------	----------

eyes wide with excitement.

D	None
----------	-------------

15 The old mansion – abandoned for decades – stood at the end of the

A	B	C
----------	----------	----------

eerie, fog-covered lane.

D	None
----------	-------------

16 Emily, Jack and Liam (who had been friends since nursery) decided to

A	B	C
----------	----------	----------

start a band.

D	None
----------	-------------

17 She had three goals for the day: finish her essay practise the piano

A	B	C
----------	----------	----------

and read a new book.

D	None
----------	-------------

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 'None'.**

18 Charlotte and Sian was training hard for a half marathon.

A	B	C	D	None
----------	----------	----------	----------	-------------

19 I'm so excited because my friend, with who I used to go to school, is coming to stay.

A	B	C
D	None	

20 We are meeting my two cousins who live at London.

A	B	C	D	None
----------	----------	----------	----------	-------------

END OF ENGLISH TEST

Aptitude Test – 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 **10 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.

Verbal Reasoning

(10 minutes)

In the questions below, move **one** letter from the word on the left to the word on the right, to create **two** new words. The letters **must not** be rearranged. Both new words must make sense. Choose the letter that moves. **Mark your answer on the answer sheet.**

1. place sort

A. p B. l C. a D. c E. e

2. stone hand

A. s B. t C. o D. n E. e

3. space door

A. s B. p C. a D. c E. e

4. beaker plum

A. b B. e C. a D. k E. r

In the questions 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.

5. Elsie was relieved that everyone was so FRILY on her first day at the new school.

A. and B. can C. end D. ten E. tan

6. Joseph enjoyed WALG the dogs early each morning.

A. tin B. ran C. pin D. kin E. pan

7 Our new house has a lot of STOE space.

A. rag

B. ink

C. pea

D. tea

E. bag

8 It took a lot of CAGE to admit he had made a mistake.

A. air

B. our

C. ear

D. far

E. are

In the questions below, find the **two** words, one from each group, that are most similar in meaning. Select the **two** words from the options below.

9 (cascade dissatisfied rain) (content course dribble)

A. cascade

X. content

B. dissatisfied

Y. course

C. rain

Z. dribble

10 (aid assist prevent) (hinder conclusion encapsulate)

A. aid

X. hinder

B. assist

Y. conclusion

C. prevent

Z. encapsulate

11 (despondent effervescent unfortunate) (achievement euphoric exuberance)

A. despondent

X. achievement

B. effervescent

Y. euphoric

C. unfortunate

Z. exuberance

12 (weary bore hind)

(perforate tedious exhilarate)

A. weary

X. perforate

B. bore

Y. tedious

C. hind

Z. exhilarate

In the questions below, find the **two** words, one from each group, that are most opposite in meaning. Select the **two** words from the options below.

13 (fervent apathetic manifest) (enthusiastically avid reveal)

A. fervent

X. enthusiastically

B. apathetic

Y. avid

C. manifest

Z. reveal

- 14** (coherent distinctly cryptic) (explicit blemished void)
- A. coherent X. explicit
- B. distinctly Y. blemished
- C. cryptic Z. void
- 15** (financial affluent indifferent) (prosperous integrates impoverished)
- A. financial X. prosperous
- B. affluent Y. integrates
- C. indifferent Z. impoverished
- 16** (strenuous perpetual persist) (unique arduous effortless)
- A. strenuous X. unique
- B. perpetual Y. arduous
- C. persist Z. effortless

END OF VR TEST

