

GL Trafford Mock 3



Paper B

60 minutes

66 marks

- This paper is divided into smaller, individually-timed sections that test Verbal Reasoning, Mathematics and Non-Verbal / Spatial Reasoning.
- Each section starts with some untimed practice questions.
- All answers should be marked on the separate answer sheet provided.

Please turn over the page to begin the Verbal Reasoning

Practice section

Verbal Reasoning Practice Section

(Untimed)

This practice section gives an example of the sort of questions you will be faced with in this test, with the correct answer filled in on the answer sheet so that you can see how to do it.

There are also some practice questions that don't have the answers filled in, so that you can practise working them out for yourself and filling in the answer sheet.

In each question, there are three pairs of words. Complete the third pair so they have the same connection as the first two pairs. **Mark your answer on the answer sheet.**

A Example

(chatty, cat) (planet, pan) (shears, _____)

A. sea B. ash C. rash D. her E. she

1 Practice

(training, rain) (grinding, rind) (bringing, _____)

A. grin B. rig C. ring D. bring E. brig

2 Practice

(flanked, led) (blanket, let) (cranked, _____)

A. red B. ran C. can D. end E. crane

In each question, there are two pairs of words. You must select a word from the options below that will go equally well with both pairs. **Mark your answer on the answer sheet.**

B Example

(festival, carnival)

(just, reasonable)

A. equal

B. honest

C. proper

D. fair

E. balanced

3 Practice

(dismiss, remove)

(shoot, launch)

A. fire

B. reject

C. ignite

D. spark

E. release

4 Practice

(skill, talent)

(present, donation)

A. ability

B. reward

C. offering

D. endowment

E. gift

END OF PRACTICE SECTION

The Verbal Reasoning test begins on the next page.

- You have 15 minutes to complete the Verbal Reasoning test.
- There are 22 questions to answer.
- Your time will start when you turn over the page.
- Do not turn over the page until you are told to do so.

Verbal Reasoning

(15 minutes)

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

***Anne of Green Gables* by Lucy Maud Montgomery. Excerpt from Chapter XVIII.**

Minnie May, aged three, was really very sick. She lay on the kitchen sofa feverish and restless, while her hoarse breathing could be heard all over the house. Young Mary Joe, a buxom, broad-faced French girl from the creek, whom Mrs. Barry had engaged to stay with the children during her absence, was helpless and bewildered, quite incapable of thinking what to do, or doing it if she thought of it.

Anne went to work with skill and promptness.

"Minnie May has croup all right; she's pretty bad, but I've seen them worse. First we must have lots of hot water. I declare, Diana, there isn't more than a cupful in the kettle! There, I've filled it up, and, Mary Joe, you may put some wood in the stove. I don't want to hurt your feelings but it seems to me you might have thought of this before if you'd any imagination. Now, I'll undress Minnie May and put her to bed and you try to find some soft flannel cloths, Diana. I'm going to give her a dose of ipecac first of all."

Minnie May did not take kindly to the ipecac but Anne had not brought up three pairs of twins for nothing. Down that ipecac went, not only once, but many times during the long, anxious night when the two little girls worked patiently over the suffering Minnie May, and Young Mary Joe, honestly anxious to do all she could, kept up a roaring fire and heated more water than would have been needed for a hospital of croupy babies.

1 In line 2, Minnie's breathing is described as '**hoarse**'. What does that mean?

- A It sounds like she is neighing.
- B Her breathing is husky and rough.
- C She is talking.
- D It is the standard way of breathing.
- E She is breathing softly and slowly.

2 Why was Minnie May very sick?

- A She had a cold.
- B She had croup.
- C She was teething.
- D She had pneumonia.
- E She fell and hit her head.

3 What is Anne's first reaction when she sees there is little hot water?

- A She cries out in panic.
- B She asks Mary Joe to boil more.
- C She scolds Diana.
- D She fills the kettle herself.
- E She runs outside for help.

4 What medicine did Anne give to Minnie May?

- A aspirin
- B cough syrup
- C ipecac
- D penicillin
- E castor oil

In each question, there are three pairs of words. Complete the third pair so they have the same connection as the first two pairs. **Mark your answer on the answer sheet.**

5 (cattle, ate) (throat, hot) (attire, _____)

A. tie B. tea C. art D. rat E. tar

6 (chamber, cab) (channel, can) (chapter, _____)

A. cap B. hat C. cat D. art E. ate

7 (dominate, one) (computer, our) (hospital, _____)

A. his B. lit C. sat D. oil E. pit

8 (footage, foe) (freckle, fee) (flatter, _____)

A. ate B. art C. fat D. let E. far

9 (address, adds) (bandage, bang) (ballads, _____)

A. bold B. bald C. ball D. balm E. band

10 (ancient, cent) (backlog, clog) (airfare, _____)

A. bare B. hare C. rare D. fare E. fair

11 (husband, hand) (setback, sack) (pendant, _____)

A. pact B. want C. pant D. pent E. ant

12 (awards, wars) (boards, oars) (blends, _____)

A. lens

B. lets

C. tens

D. lend

E. send

In each question, there are two pairs of words. You must select a word from the options below that will go equally well with both pairs. **Mark your answer on the answer sheet.**

13 (tournament, contest) (equal, correspond)

A. rival

B. balance

C. pair

D. match

E. same

14 (mistake, error) (blame, responsibility)

A. defect

B. fault

C. apology

D. offence

E. accident

15 (support, assist) (help, relief)

A. service

B. aid

C. favour

D. guidance

E. rescue

16 (border, edge) (advantage, benefit)

A. margin

B. boundary

C. profit

D. outline

E. side

17 (observe, watch) (guard, protect)

A. defend

B. inspect

C. supervise

D. patrol

E. monitor

18 (rapid, brisk) (abstain, diet)

A. quick

B. speed

C. race

D. swift

E. fast

- 19 (observe, monitor) (clock, timepiece)
- A. inspect B. watch C. supervise D. glance E. survey
- 20 (current, modern) (introduce, unveil)
- A. recent B. reveal C. present D. launch E. existing

- 21 Priya, Marcus, Zoe and Theo have been given their scores in a spelling test. Marcus scored twice as many points as Zoe. Priya scored 5 points more than Marcus. Theo scored 16 points, which was 4 more than Marcus.

Which statement is true?

- A. Zoe scored 8 points.
- B. Marcus and Zoe scored 20 points between them.
- C. Priya scored the most points.
- D. Theo scored 3 more points than Priya.
- E. Zoe scored 5 fewer points than Theo.
- 22 Read the statements below and then choose one option that must be true.

A whale is a mammal. All mammals breathe air.

- A. Whales can fly.
- B. Whales breathe air.
- C. All animals are mammals.
- D. Mammals live only in water.
- E. All sea creatures are mammals.

**END OF VERBAL REASONING SECTION.
DO NOT TURN OVER UNTIL YOU ARE TOLD TO DO SO.**

Maths
(20 minutes)

Work out the correct answer and mark its letter on your answer sheet.

- 1** A shop reduces a jacket priced at £85 by 35%. A week later the reduced price is increased by 20%. What is the final price?

A £62.40 **B** £55.25 **C** £66.30 **D** £63.75 **E** £68.00

- 2** $5^2 + 2^3 + 3 = x^2$

What is the value of x ?

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

- 3** Three friends buy lunch. Kim spends £2 more than Lena. Tom spends twice as much as Lena. Together they spend £22. How much does Kim spend?

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

- 4** A square has a perimeter of 52cm. What is its area?

A 136cm^2 **B** 144cm^2 **C** 156cm^2 **D** 169cm^2 **E** 196cm^2

- 5 Three water bottles have different capacities. Each bottle is a different price.



Which bottle has the lowest capacity per pound (£)?

- 6
A computer program carries out the following steps:
- If (old) number < 150, then (new) number = (old) number $\times$ 2
Print (new) number (on the screen)
Repeat the calculation steps
- When the program repeats, the (new) number becomes the (old) number for the next cycle.
- If Priya inputs the (old) number 17, what is the 3rd number she will see on the screen?
- A Bottle X B Bottle Y C Bottle Z D Both X and Z E Both Y and Z

- 7
A recipe for 6 people requires 450g of flour and 3 eggs. How much flour is needed for 10 people?

- A 34 B 119 C 272 D 68 E 136

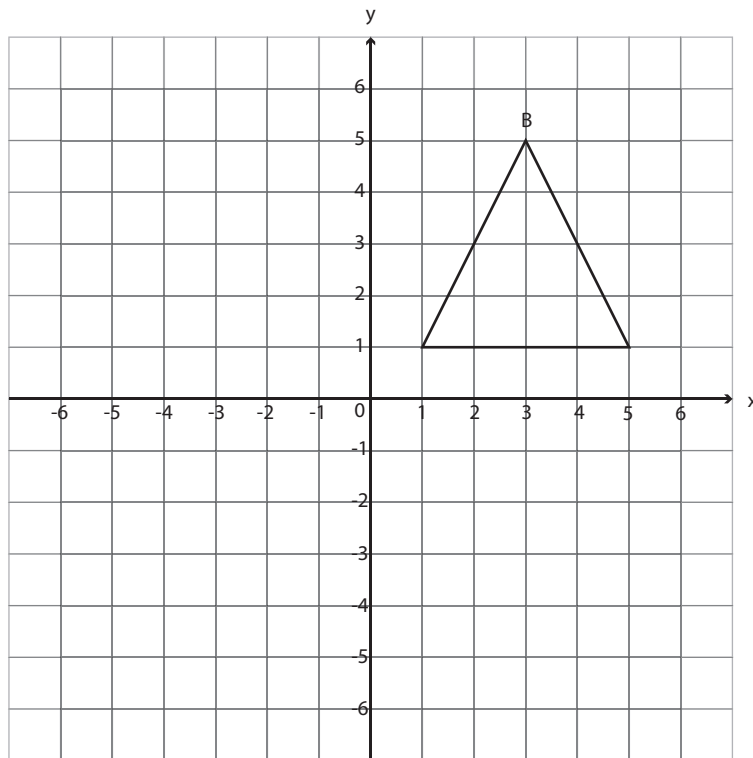
- A 650g B 700g C 720g D 750g E 775g

- 8** The angles in a quadrilateral are in the ratio 2:3:4:6. What is the size of the largest angle?
- A** 96° **B** 108° **C** 144° **D** 120° **E** 180°
- 9** What is the value of q in: $(3q + 7) \div 4 = 10$
- A** 9 **B** 10 **C** 11 **D** 12 **E** 13
- 10** A school library survey found the following numbers of books borrowed per pupil in one month: 4, 7, 3, 9, 5, 3, 6, 3. What is the modal number of books borrowed?
- A** 3 **B** 4 **C** 5 **D** 6 **E** 7
- 11** A solid cuboid has dimensions $8\text{cm} \times 5\text{cm} \times 3\text{cm}$. What is the total surface area of the cuboid?
- A** 158cm^2 **B** 120cm^2 **C** 79cm^2 **D** 190cm^2 **E** 149cm^2
- 12** A swimming pool charges £12 for each visit.
- You can get 20% off the entry fee by buying a membership card.
- Sofia pays £21.60 on her first visit, which is the total cost of the membership card and the reduced entry fee.
- How many visits does Sofia need to make before she gets back the price of her membership card?
- A** 5 **B** 3 **C** 7 **D** 2 **E** 6

- 13** A coach journey covers 252 km at an average speed of 63 km/h. If the coach leaves at 09:35, what time does it arrive?
- A** 14:00 **B** 13:25 **C** 13:40 **D** 13:45 **E** 13:35
- 14** What is the lowest common multiple (LCM) of 12 and 18?
- A** 36 **B** 6 **C** 72 **D** 24 **E** 216
- 15** A rectangular garden has an area of 120m². Its length is 15m. A path 1m wide is built all the way around the outside. What is the area of just the path?
- A** 60m² **B** 56m² **C** 72m² **D** 50m² **E** 48m²
- 16** Two-thirds of a number is 48. What is $\frac{3}{4}$ of the original number?
- A** 56 **B** 60 **C** 64 **D** 54 **E** 72
- 17** A lottery prize of £4,500 is shared between three people in the ratio 2:3:7. How much more does the person with the largest share receive than the person with the smallest share?
- A** £1,250 **B** £1,775 **C** £2,000 **D** £1,875 **E** £2,500

- 18** A triangle has vertices at $(1,1)$, $(5,1)$ and $(3,5)$. It is translated 3 right and 2 down.

What are the new coordinates of the vertex B?



- A** $(6, 3)$ **B** $(4, 3)$ **C** $(6, 7)$ **D** $(0, 3)$ **E** $(3, 6)$
- 19** Three classes raise money for charity. Class A raises £4 more than Class B. Class C raises twice as much as Class B. Together all three classes raise £64.

How much does Class A raise?

- A** £21 **B** £20 **C** £19 **D** £22 **E** £23

- 20** A number sequence follows the rule: multiply by 2 then subtract 3.
- The third term is 11. What is the first term?

- A** 4 **B** 5 **C** 6 **D** 7 **E** 8

END OF MATHS SECTION.
DO NOT TURN OVER UNTIL YOU ARE TOLD TO DO SO.

Non-Verbal Reasoning Subtest 1

Practice Section

(Untimed)

This practice section gives an example of the sort of question you will be faced with in Non-Verbal Reasoning Subtest 3, with the correct answer filled in on the answer sheet so that you can see how to do it.

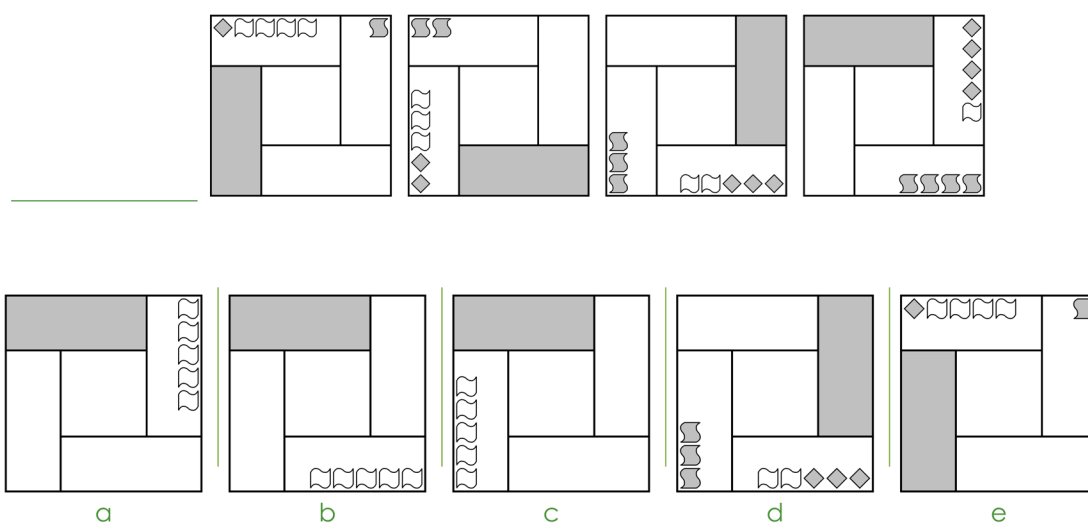
There are also two practice questions that don't have the answers filled in, so that you can practise working them out for yourself and filling in the answer sheet.

In these questions, there is an incomplete series. You are shown four figures, with one missing figure. The position of the missing figure may vary between questions.

You must choose the missing figure that will complete the series in the best way from the five possible answer figures.

Choose the correct figure and mark it on your answer sheet.

A Example

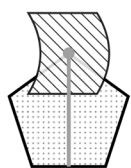
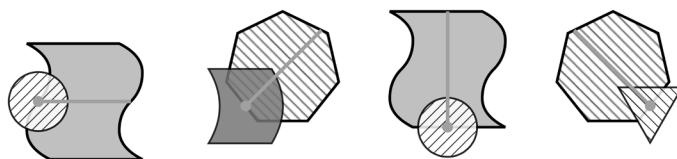


The answer is **a**. In this series, multiple things are changing. The large grey rectangle inside the square moves around the corners in an anticlockwise direction. Secondly, the position of the grey flags also moves round in an anticlockwise direction and they increase in number by one each time. The number of grey diamonds also increases by one each time. The white flag shapes decrease by one each time.

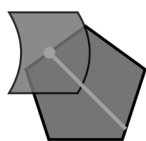
Now try the practice questions and mark your answers on the answer sheet.

1 Practice

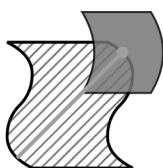
Choose the figure that completes the series.



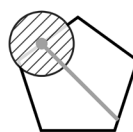
a



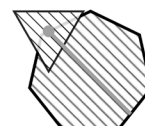
b



c



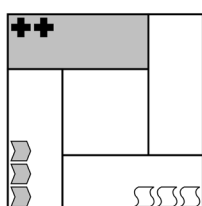
d



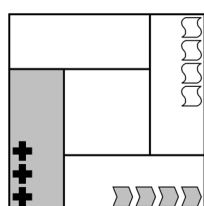
e

2 Practice

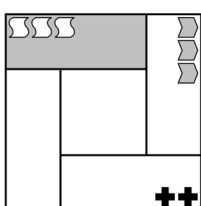
Choose the figure that completes the series.



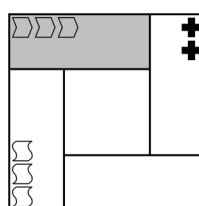
a



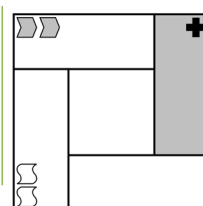
b



c



d



e

END OF PRACTICE SECTION

Non-Verbal Reasoning Subtest 1 begins on the next page.

- **You have 4 minutes to complete Non-Verbal Reasoning Subtest 1.**
- **There are 8 questions in this subtest.**
- **Your time will start when you turn over the page.**
- **Do not turn over the page until you are told to do so.**

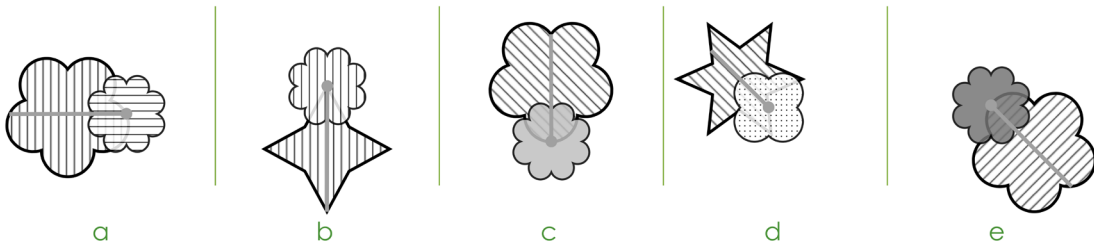
Non-Verbal Reasoning Subtest 1

(4 minutes)

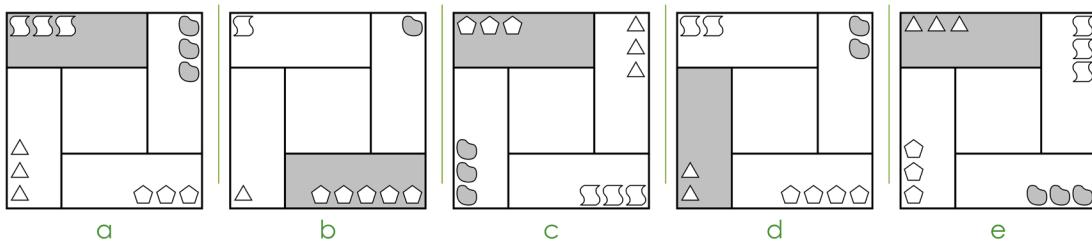
Work out the correct answer and mark its letter on your answer sheet.

Choose the figure that completes the series.

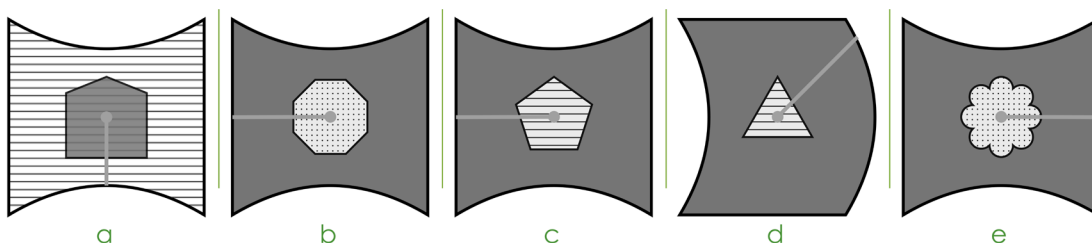
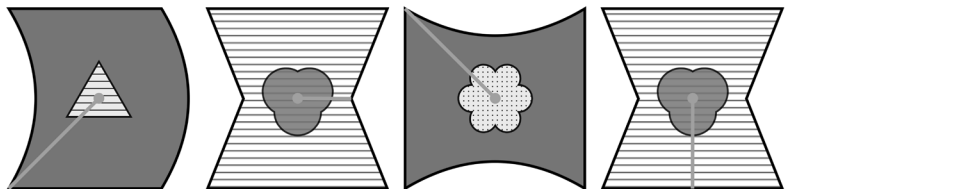
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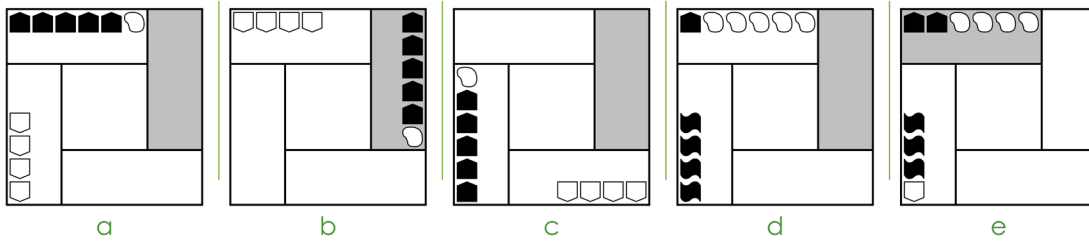
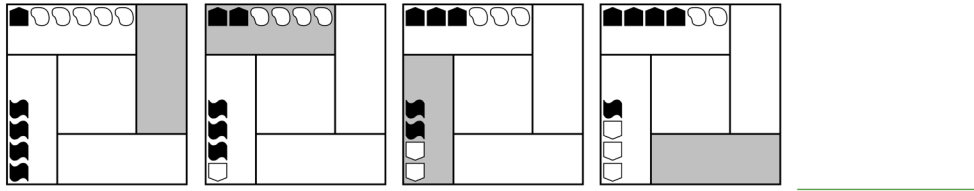
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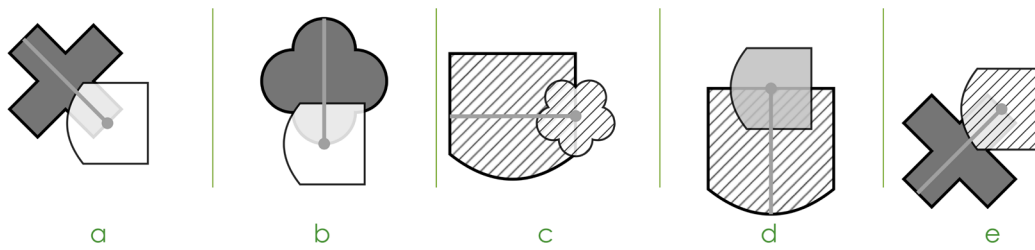
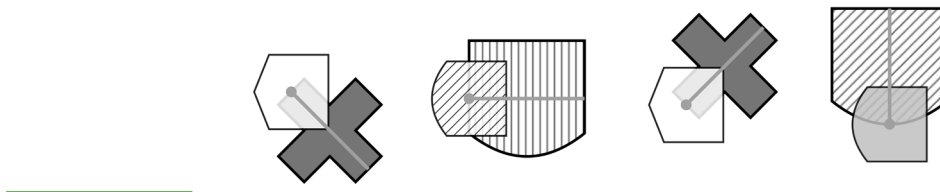
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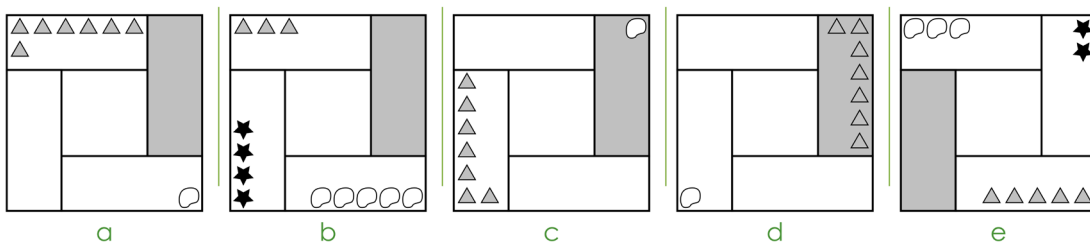
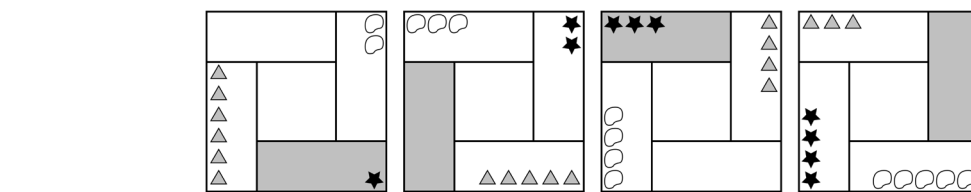
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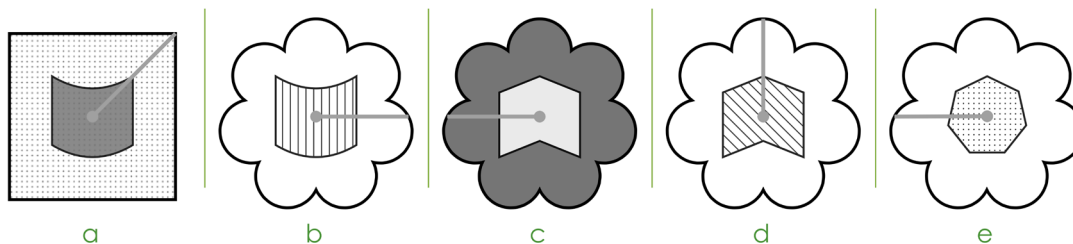
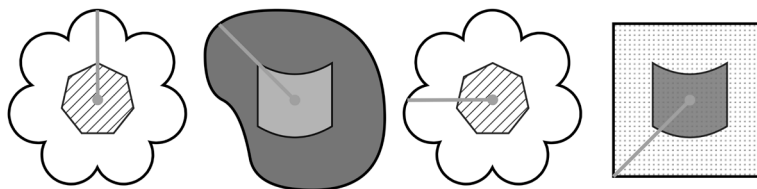
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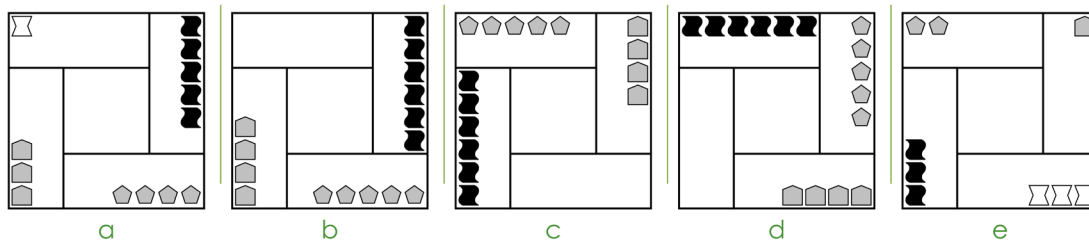
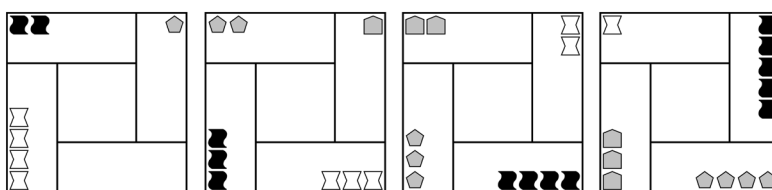
6



7



8



END OF NON-VERBAL REASONING SUBTEST 1.
DO NOT TURN OVER THE PAGE UNTIL YOU ARE TOLD TO DO SO.

Non-Verbal Reasoning Subtest 2 Practice

(untimed)

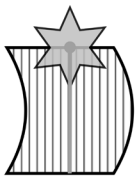
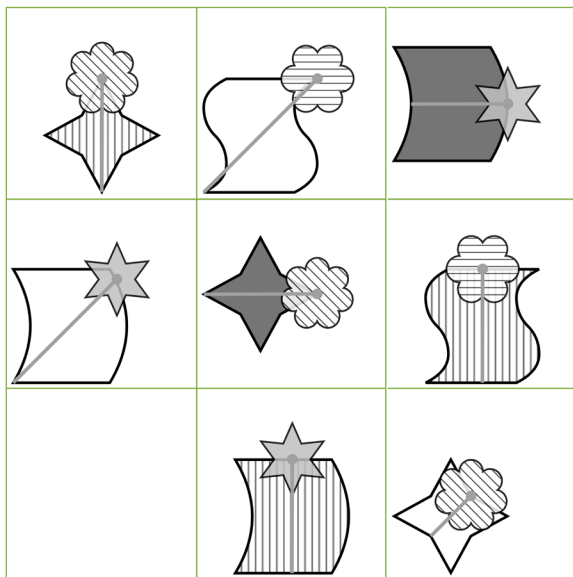
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There are also some practice questions that don't have the answers filled in, so that you can practise working them out for yourself and filling in the answer sheet.

In these questions, one of the small squares in the matrix has been left empty. One of the five figures underneath should fill the empty square.

Choose the correct figure and mark it on your answer sheet.

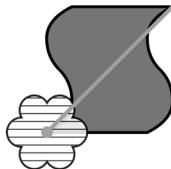
A Example



a



b



c



d

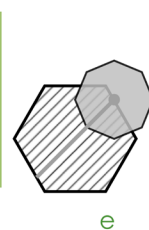
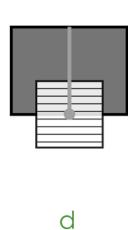
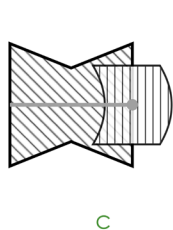
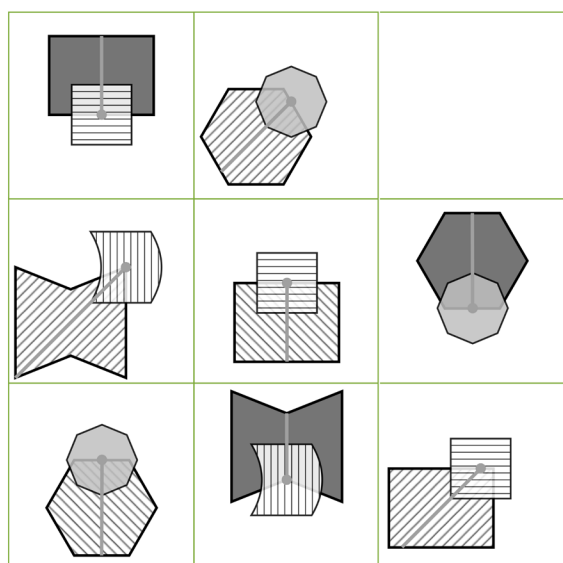


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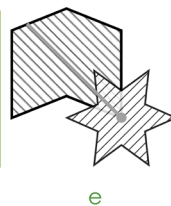
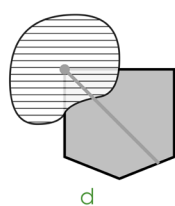
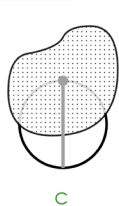
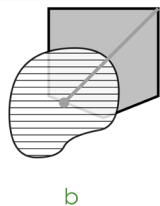
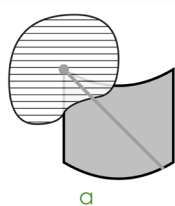
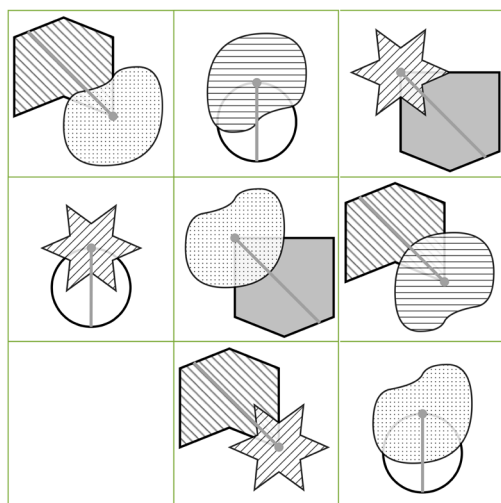
The answer is **d**.

1 Practice

Which figure should fill the empty square?



2 Practice



END OF PRACTICE

Non-Verbal Reasoning Subtest 2 begins on the next page.

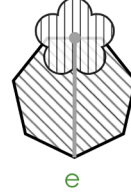
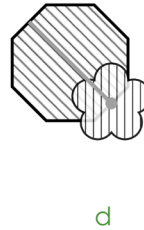
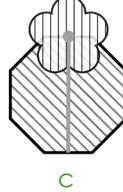
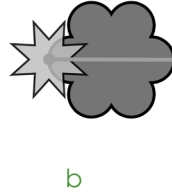
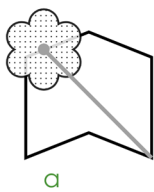
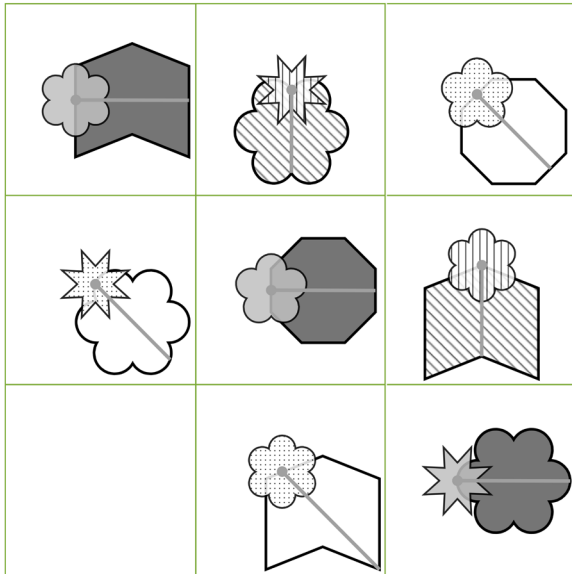
- **You have 4 minutes to complete Non-Verbal Reasoning Subtest 2.**
- **There are 8 questions to answer.**
- **Your time will start when you turn over the page.**
- **Do not turn over the page until you are told to do so.**

Non-Verbal Reasoning Subtest 2

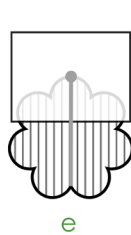
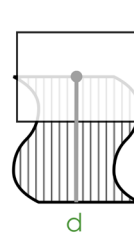
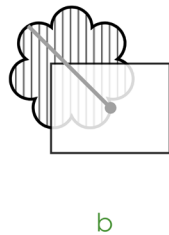
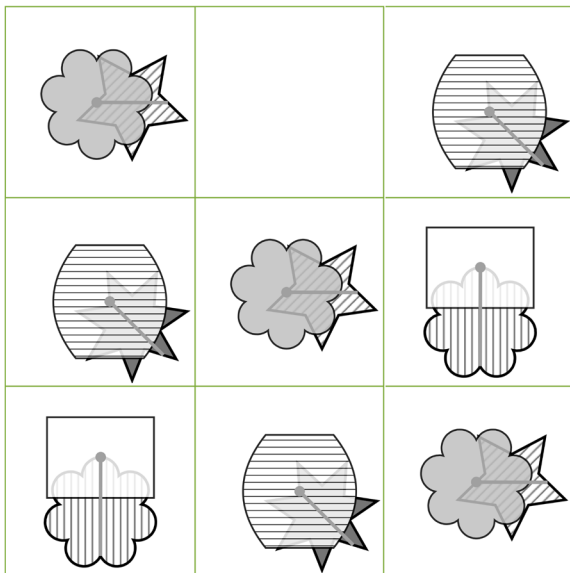
(4 minutes)

Which figure should fill the empty square? Mark its letter on your answer sheet.

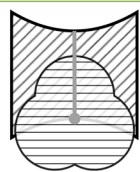
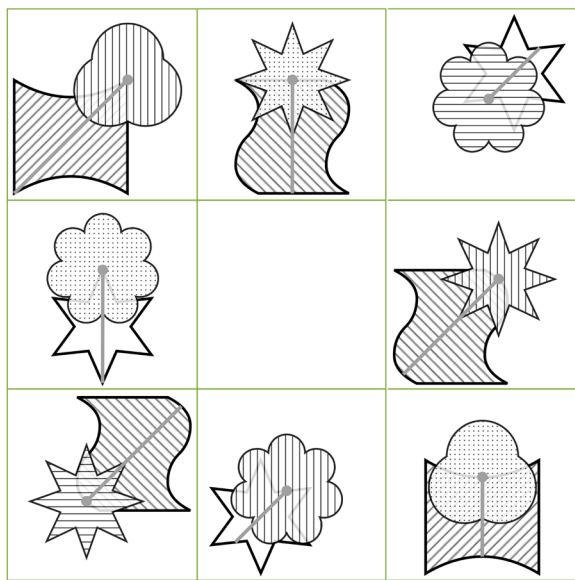
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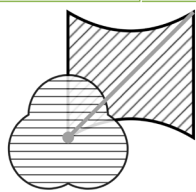
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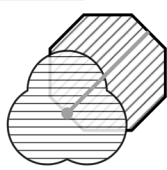
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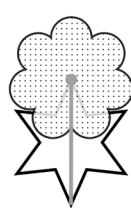
a



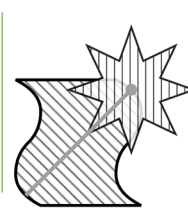
b



c

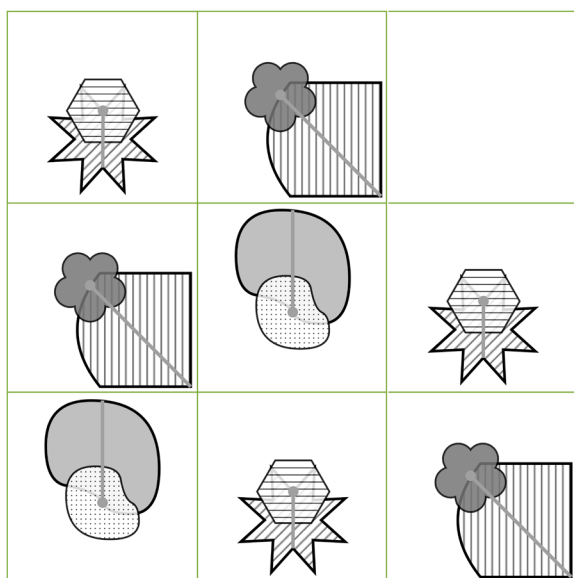


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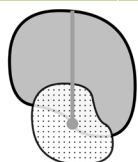


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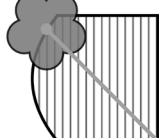
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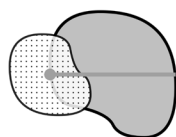
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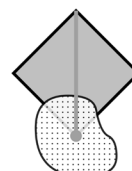
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c

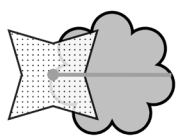
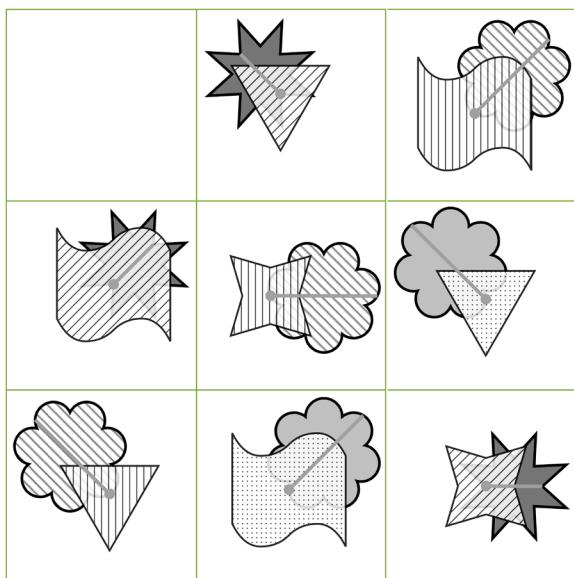


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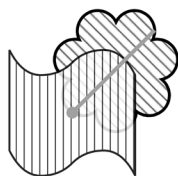


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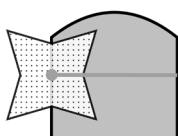
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a



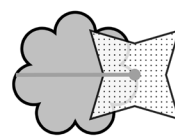
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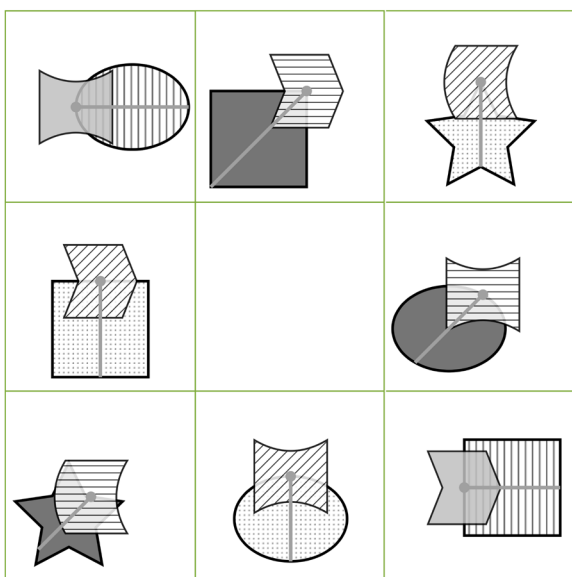


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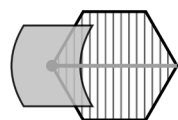


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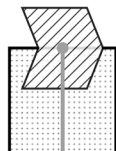
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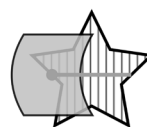
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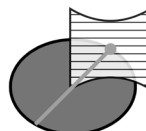
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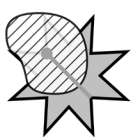
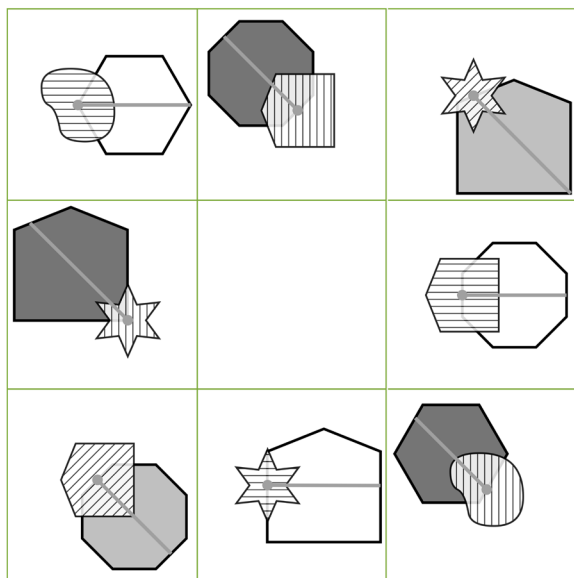


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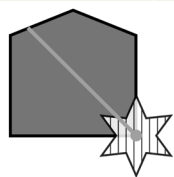


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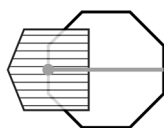
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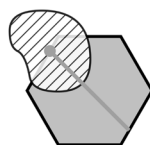
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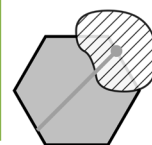
b



c

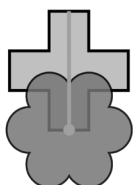
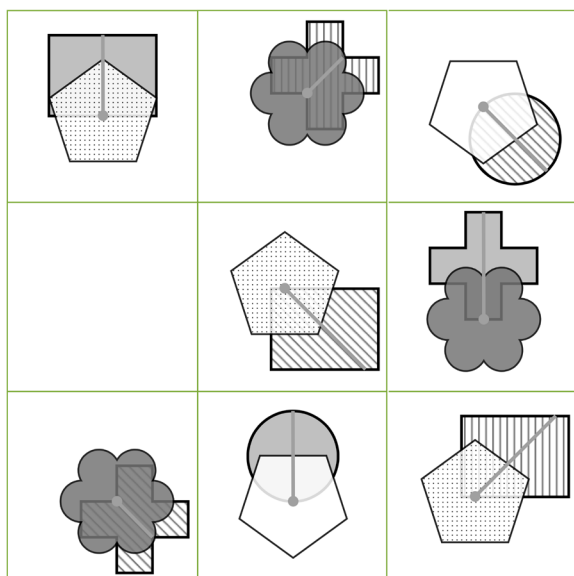


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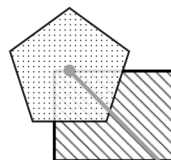
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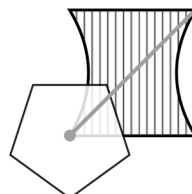
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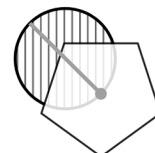
b



c



d



e

END OF NON-VERBAL REASONING SUBTEST 2.
DO NOT TURN OVER THE PAGE UNTIL YOU ARE TOLD TO DO SO.

Spatial Reasoning Practice

(untimed)

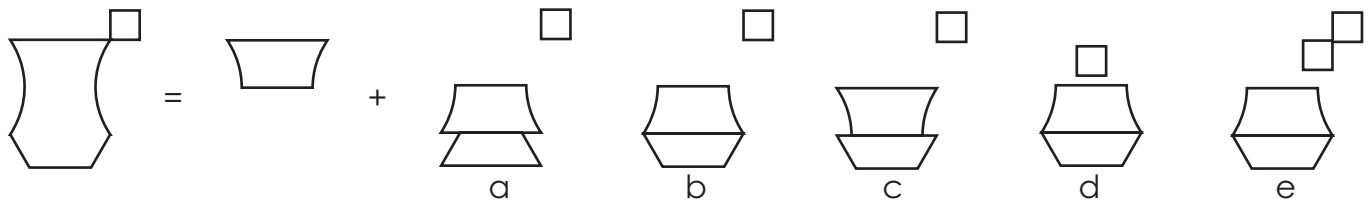
This practice section gives an example of the sort of questions you will be faced with in this test, with the correct answer filled in on the answer sheet so that you can see how to do it.

There are also some practice questions that don't have the answers filled in, so that you can practise working them out for yourself and filling in the answer sheet.

In these questions, the target shape is shown on the far left. Alongside it is one part of the shape.

Decide which of the five shapes, or sets of shapes, on the right needs to be added to that part to make the target shape, and mark its letter on your answer sheet. Be aware that sometimes the correct shape, or set of shapes, may have been rotated to make it harder to find.

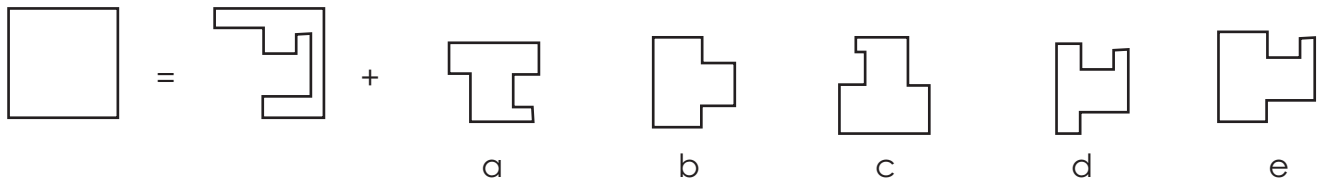
A Example



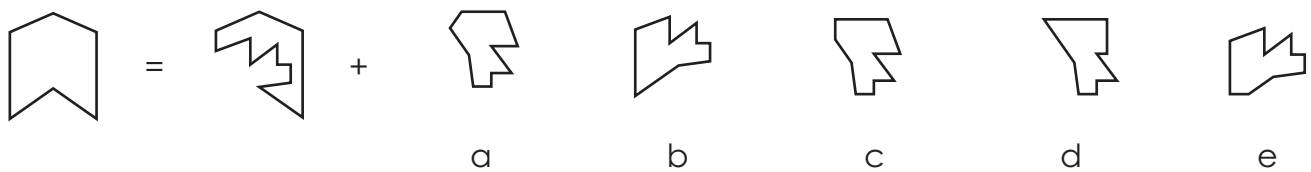
The answer is **b**.

1 Practice

Decide which of the five shapes, or sets of shapes, on the right needs to be added to the partial shape to make the target shape.



2 Practice



END OF PRACTICE SECTION

Spatial Reasoning test begins on the next page.

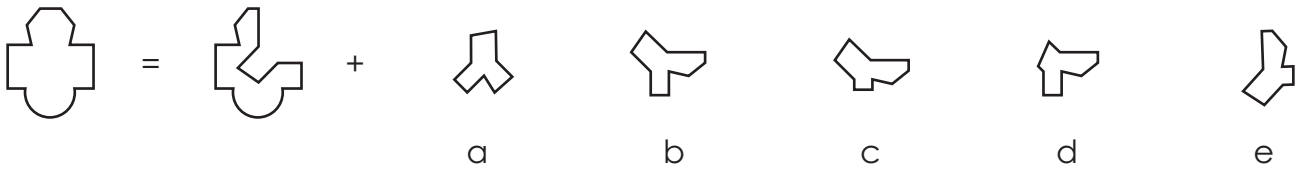
- **You have 4 minutes to complete the Spatial Reasoning test.**
- **There are 8 questions in this test.**
- **Your time will start when you turn over the page.**
- **Do not turn over the page until you are told to do so.**

Spatial Reasoning

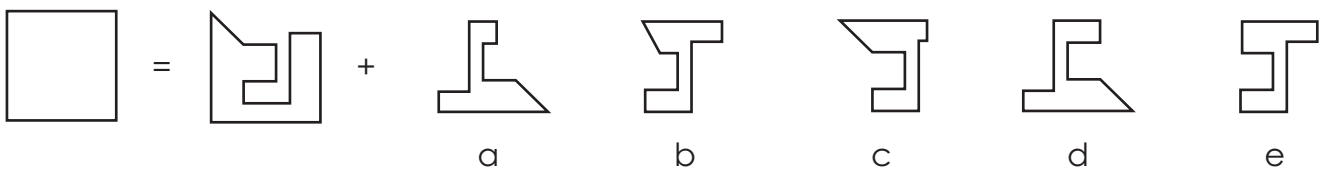
(4 minutes)

Decide which of the five shapes, or sets of shapes, on the right needs to be added to the partial shape to make the target shape. **Mark your answer on the answer sheet.**

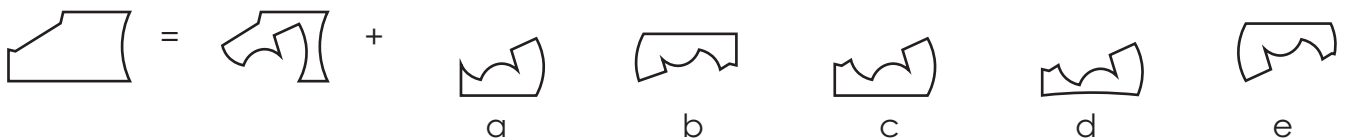
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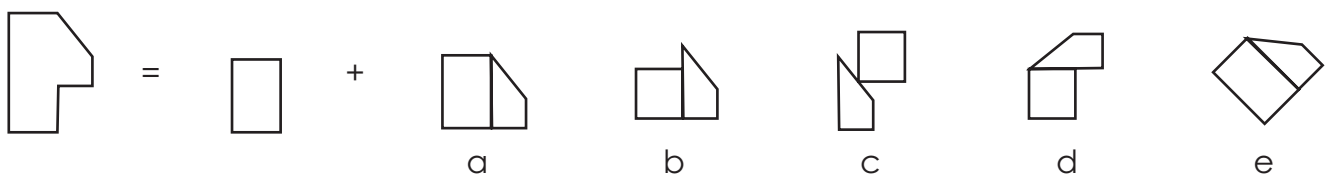
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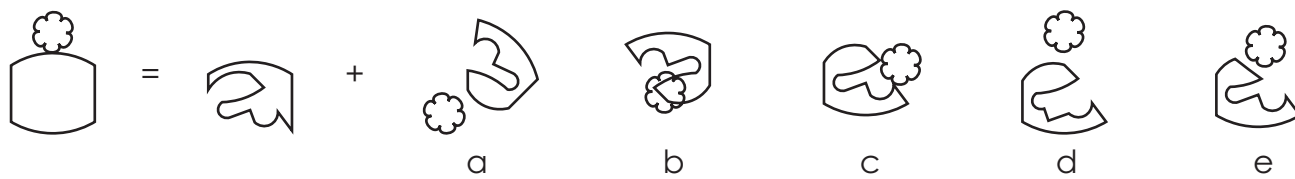
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4



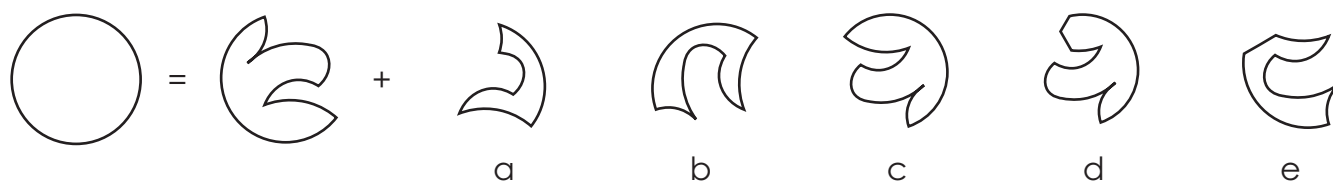
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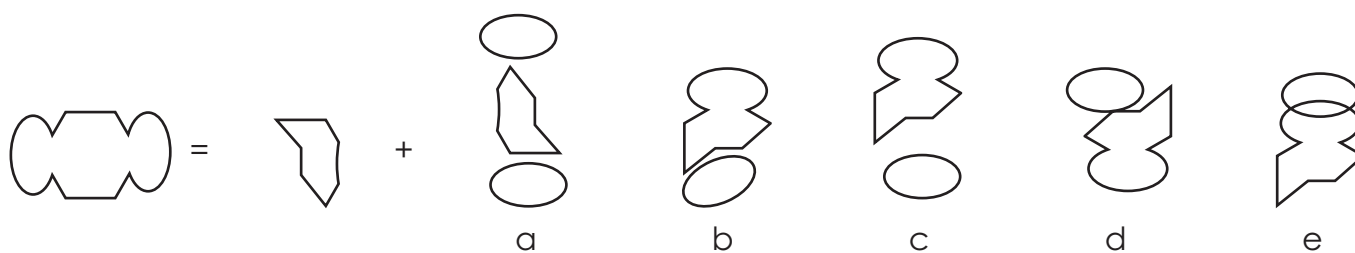
6



7



8



END OF SPATIAL REASONING TEST.

END OF PAPER B.

