

Reasoning Paper E

Reasoning Paper F

1	E	31	E	61	A	1	D	31	D	61	E
2	A	32	E	62	B	2	D	32	D	62	D
3	C	33	B	63	E	3	C	33	A	63	B
4	A	34	E	64	D	4	A	34	C	64	D
5	E	35	E	65	E	5	E	35	B	65	A
6	B	36	B			6	D	36	E		
7	D	37	A			7	A	37	C		
8	A	38	C			8	D	38	D		
9	C	39	B			9	B	39	D		
10	D	40	D			10	A	40	B		
11	C	41	D			11	E	41	D		
12	B	42	B			12	A	42	E		
13	I	43	E			13	d	43	A		
14	e	44	A			14	e	44	D		
15	d	45	C			15	k	45	C		
16	b	46	D			16	m	46	B		
17	a	47	C			17	e	47	E		
18	1	48	E			18	27	48	A		
19	6	49	B			19	13	49	B		
20	10	50	B			20	2	50	D		
21	9	51	D			21	49	51	A		
22	5	52	A			22	49	52	C		
23	sit	53	E			23	chap	53	B		
24	kind	54	B			24	sits	54	A		
25	for	55	C			25	gate	55	E		
26	fast	56	D			26	evil	56	D		
27	ball	57	E			27	slip	57	C		
28	B	58	C			28	B	58	B		
29	A	59	B			29	E	59	B		
30	C	60	D			30	B	60	C		

Section 1 – Comprehension

YOU HAVE 10 MINUTES TO COMPLETE THIS SECTION

The Wishing Willow

The warm wind rattled the branches of the trees, sounding like dancing skeletons. The shadowy grasping hands fluttering across the path, in the moonlight, caused Jack to shiver. It was an hour after his bedtime and Jack heard the bells of a clock chiming faintly in the distance. After the tenth chime faded into silence, he decided to pick up his pace. He had to arrive by midnight and there were only
5 two hours left and a long walk ahead.

Jack was starting to doubt if he was doing the right thing. He had found an old, worn-out book hidden in the cottage his family had recently moved into. The book had been a diary of a man from Victorian times and near the end of the diary the man talked about the myth of the Wishing Willow. A magical tree said to grant the wish of those who found it. The man claimed the tree only appeared once every
10 150 years. The last entry in the diary was a message to the next person to find it, with directions to the tree for whoever was lucky enough to find it.

Jack discovered the man had been rich and successful in his later years, despite coming from an ordinary background. Jack guessed that the man's wish had been the cause of his success and hoped to emulate him. Luckily for Jack it had been exactly 149 years when he discovered the diary, and
15 tonight was the night the tree was supposed to reappear. After fretting and thinking over it for a year, Jack had decided he had to risk it, even if it turned out to be untrue. At the worst, he might get told off for sneaking out of the house, whereas, on the other hand, he might get his wish granted.

A tall, twisted shape appeared to the side of the path. Jack smiled as he saw it was an old rusty lamppost, the first clue to the location of the tree. On top of the lamppost, a Pegasus was shaped,
20 leaping into flight. The Pegasus pointed at a gap between two large stones, so Jack squeezed between them and followed along a new pathway. In the distance eleven chimes rang out, seemingly louder than before, another sign he was on the right route.

After following the winding path, Jack finally found the origin of the chimes. In a small valley stood a giant stone column with a clock etched on top. The fingers shone with a faint rainbow light, and a
25 large pendulum swung slowly below the clock face. Just as the diary said, behind the pendulum the faint outline of a door was carved into the stone. Jack pushed on the stone door, and to his surprise, it swung open easily, revealing the inky blackness of a passage behind it.

With a deep breath, Jack walked into the passage...

Many years later, Jack stood in his gallery, surrounded by his art, and looked at his latest masterpiece.
30 It was a large canvas showing a woodland scene at night. In the bottom left corner, a strange old lamppost stood next to a path. A stone monolith with a clock carved at the top appeared near the centre. In the top right corner, a magnificent glowing willow tree that almost looked like it had a human face was depicted. It was only fair for him to leave clues for the next person lucky enough to visit the tree, he thought with a smile.

Continue to the next page

1. According to the text, what "caused Jack to shiver." (line 2)?

- A. He saw skeletons in the trees.
- B. He was scared of the moon.
- C. The wind was freezing cold.
- D. Ghosts tried to grab him.
- E. The shadows of the branches scared him.

2. What time is Jack's bedtime?

- A. 9pm.
- B. Midnight.
- C. 10pm.
- D. 11pm.
- E. 8pm.

3. How did Jack find out about the Wishing Willow?

- A. He read about it in a story.
- B. It was on the local news.
- C. An old diary mentioned it.
- D. An old man spoke to him about it.
- E. It was from a Greek myth.

4. Why did Jack believe the man's wish had been granted?

- A. The man suddenly became successful.
- B. The man was famous as a child.
- C. It said so in a history book.
- D. The man met Queen Victoria.
- E. The man became a superhero.

5. Why did Jack decide to risk looking for the Wishing Willow?

- A. He wasn't scared of being told off.
- B. He had a detailed map.
- C. He knew it was real.
- D. He wanted to prove the man wrong.
- E. The potential benefits outweighed the negatives.

6. How long did it take for Jack to find the lamppost from the start of the story?

- A. 30 minutes.
- B. 1 hour.
- C. 15 minutes.
- D. 2 hours.
- E. 3 hours.

Continue to the next page

7. What was causing the chiming noises Jack heard?

- A. A church bell.
- B. His phone alarm.
- C. An alarm clock.
- D. A stone clock.
- E. Some windchimes.

8. What did Jack first see when he opened the door in the clock?

- A. A dark passage.
- B. A pool of ink.
- C. A magical tree.
- D. A well lit passage.
- E. A black sheet.

9. Which of the following is most likely what Jack wished for?

- A. To be handsome.
- B. To be a rock star.
- C. To be a talented artist.
- D. To own a museum.
- E. To time travel to the future.

10. What was the Wishing Willow?

- A. A well.
- B. A wizard.
- C. A clock.
- D. A tree.
- E. A monolith.

11. What is the meaning of the word 'emulate' (line 14)?

- A. Annoy.
- B. Disprove.
- C. Copy.
- D. Find.
- E. Beat.

12. What is the meaning of the word 'fretting' (line 15)?

- A. Waiting.
- B. Worrying.
- C. Relaxing.
- D. Playing.
- E. Planning.

Wait here until you are told to continue

Section 2 – Verbal Reasoning

YOU HAVE 12 MINUTES TO COMPLETE THIS SECTION

In each question below, one letter can be moved from the first word to the second word making two new words. The order of the letters must not be changed and the new words must make sense. Find the letter that can be moved and mark it on the answer sheet.

Example: staid rip

Answer: t (the new words are said and trip)

13. black imp
14. bites very
15. cared ark
16. bride arm
17. haunt chin

In each question below, the equations must balance. Find the number that will correctly complete the sum and mark it on your answer sheet.

Example: $9 + 6 = 22 - [?]$

Answer: 7

18. $9 \times 2 - 5 = 6 \times 2 + [?]$
19. $20 + 6 - 8 = 48 \div 4 + [?]$
20. $35 \div 7 + 11 = 36 \div 6 + [?]$
21. $20 \div 4 \times 9 = 3 \times 12 + [?]$
22. $66 \div 11 = 1 + [?]$

Continue to the next page

In the questions below, in the first group the word in brackets is made up from letters from the other two words in the group. The three words in the second group must go together in the same way as those in the first group. Find the word that is missing from the second group and mark it on your answer sheet.

Example: tramp (pale) field : fresh () sepal

Answer: heap

23. paint (nut) bus : crest () win

24. sign (sift) lofts : kite () wands

25. prize (pig) gram : float () rasp

26. craze (zone) only : craft () asks

27. gusts (sung) undue : label () alert

Read the information below and select the correct answer. Mark the answer on the answer sheet.

28. Five friends catch the same tram home from a concert. They all get off at different stations. Alex gets off after everybody else. Molly gets off one stop before Jamal. When Devi gets off there are only two of his friends left on the tram. Carla gets off the tram two stops after Molly.

Which of the friends gets off the tram first?

- A: Alex
- B: Molly
- C: Jamal
- D: Devi
- E: Carla

Wait here until you are told to continue

Section 3 - Non-Verbal Reasoning
YOU HAVE 9 MINUTES TO COMPLETE THIS SECTION

In the following questions, there are five figures. Find one figure in each row which is most unlike the other four figures.

29.



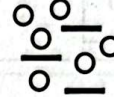
A



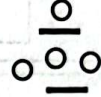
B



C



D



E

30.



A



B



C



D



E

31.



A



B



C



D



E

32.



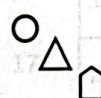
A



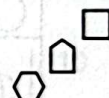
B



C



D



E

33.



A



B



C



D



E

34.



A



B



C



D

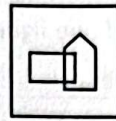
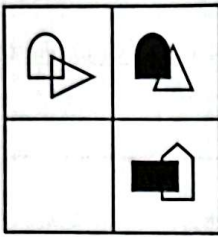


E

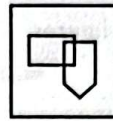
Continue to the next page

In the following questions, find the shape on the right which goes in the blank square of the matrix.

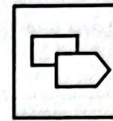
35.



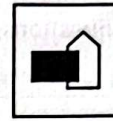
A



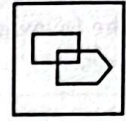
B



C

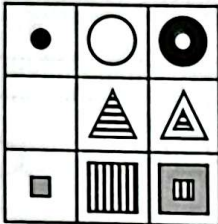


D

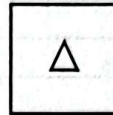


E

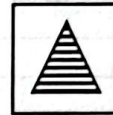
36.



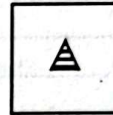
A



B



C

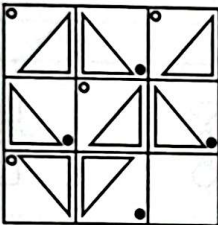


D

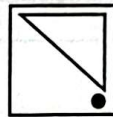


E

37.



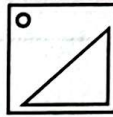
A



B



C

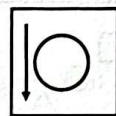
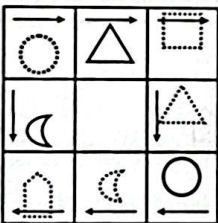


D

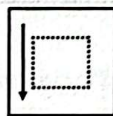


E

38.



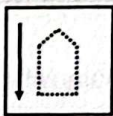
A



B



C

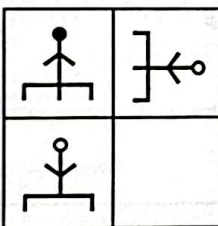


D

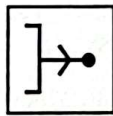


E

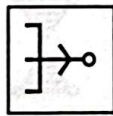
39.



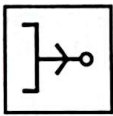
A



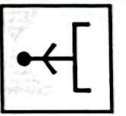
B



C

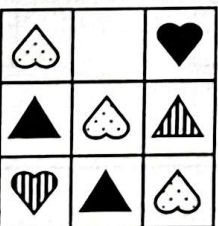


D



E

40.



A



B



C



D

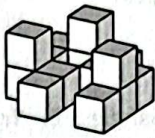


E

Continue to the next page

In the following questions, there are 3D shapes formed from small cubes. There are no hidden cubes unless they are below another cube and supporting it. Count how many small cubes are used in the construction.

41.



13

12

15

14

16

A

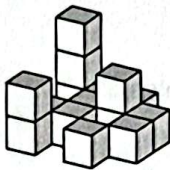
B

C

D

E

42.



14

15

17

16

13

A

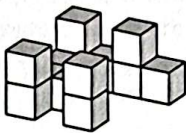
B

C

D

E

43.



11

14

12

15

13

A

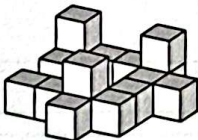
B

C

D

E

44.



16

18

17

15

19

A

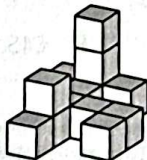
B

C

D

E

45.



12

11

13

15

14

A

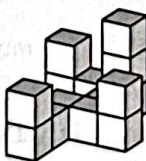
B

C

D

E

46.



12

15

11

14

13

A

B

C

D

E

Wait here until you are told to continue

Section 4 – Maths

YOU HAVE 19 MINUTES TO COMPLETE THIS SECTION

47. Which quadrilateral has no parallel sides and one pair of opposite equal angles?

- A: Rhombus B: Square C: Kite D: Scalene Triangle E: Trapezium

48. What is 55% of 640?

- A: 384 B: 320 C: 325 D: 288 E: 352

49. How many dots are need for the next pattern in the sequence?



- A: 9 B: 8 C: 4 D: 6 E: 10

50. Devon saves £7.20 a week during the six-week long summer holidays.

How much money has he saved at the end of the holidays?

- A: £48.60 B: £43.20 C: £35.80 D: £42.00 E: £45.20

51. The temperature recorded in Casey's basement is -5°C whilst the temperature recorded in his attic is 12°C higher.

What is the temperature in the attic?

- A: 17°C B: -17°C C: -7°C D: 7°C E: 11°C

Continue to the next page

52. Louis buys two packs of football cards a week. The frequency table shows the number of shiny cards in the packs over the course of 52 weeks.

Number of Shiny Cards	Frequency
0	22
1	39
2	14
3	7
4	9

How many packs contained 3 shiny cards?

- A: 20 B: 12 C: 28 D: 52 E: 16

53. In a sports hall, there are 1080 different balls from various sports. 15% of the balls are footballs and 5% are golf balls. The rest are tennis balls.

How many tennis balls are there in the sports hall?

- A: 80 B: 216 C: 968 D: 1046 E: 864

54. $4 \times 6 \times 3 = ?$

- A: 12×3 B: 18×4 C: 18×6 D: 24×2 E: 12×4

55. Erin spent 2 hours and 25 minutes doing her homework. She finished her homework at 18:45.

What time did she start doing her homework?

- A: 4:10pm B: 9:10pm C: 4:20pm D: 9:10am E: 4:20am

Continue to the next page

56. Mark was x years old 8 years ago.

How old will he be in six years time?

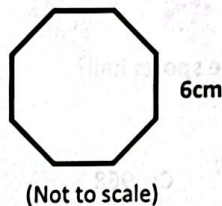
A: $x - 14$ B: $x + 4$ C: $x - 4$ D: $x + 14$ E: $x - 2$

57. Brad is making homemade pickles. He has a 2.25L bottle of vinegar which he dilutes with three times as much water.

How many 450ml pickling jars can he fill with his vinegar solution?

A: 2 B: 12 C: 17 D: 18 E: 20

58. What is the perimeter of the regular shape below?



A: 36cm B: 38cm C: 48cm D: 54cm E: 64cm

59. How many prime numbers are there between 50 and 70?

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

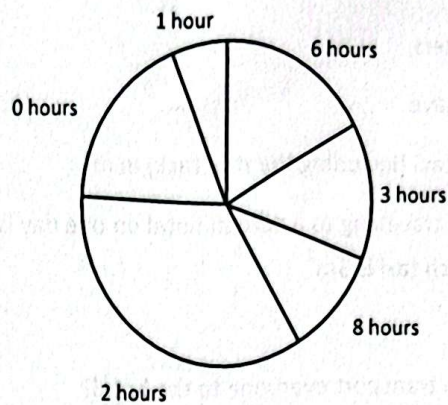
60. The length of a great white shark was measured to be 6m to the nearest 10cm.

What could the exact length of the shark have been?

A: 605cm B: 589cm C: 611cm D: 595cm E: 594cm

Continue to the next page

61. Shakira recorded how many hours it rained each day, for a whole month. Her results are recorded in the pie chart below.



What was the range?

62. All the spaces in a car park are numbered odd on one side and even on the other.

Which of the following spaces is next to the space numbered 57?

63. Maryam is selling chocolate brownie bites at a charity event. She has 147 to sell. She decides to sell them in bags of nine.

How many bags can she sell?

64. How many 45° angles are there in a full circle?

Continue to the next page

65. The number of taxis (T) needed to carry a group of holidaymakers from the airport to their hotel can be calculated with the following equation:

$$T = (h + 2b) \div s$$

h is the number of holidaymakers

b is the number of bags they have

s is the storage space of each taxi (including the roof rack) in m^2

The number of holidaymakers travelling to a certain hotel on one day is 15 and they bring 12 bags between them. The storage space in each taxi is $3m^2$.

How many taxis are needed to transport everyone to the hotel?

A: 9

B: 22

C: 12

D: 18

E: 13

END OF TEST

Reasoning Paper E

Pupil's Name

Date of Test

School Name

DATE OF BIRTH

PUPIL NUMBER

SCHOOL NUMBER

Day

Month

Year

[0]	[0]	[0]	[0]	[0]	[0]
[1]	[1]	[1]	[1]	[1]	[1]
[2]	[2]	[2]	[2]	[2]	[2]
[3]	[3]	[3]	[3]	[3]	[3]
[4]	[4]	[4]	[4]	[4]	[4]
[5]	[5]	[5]	[5]	[5]	[5]
[6]	[6]	[6]	[6]	[6]	[6]
[7]	[7]	[7]	[7]	[7]	[7]
[8]	[8]	[8]	[8]	[8]	[8]
[9]	[9]	[9]	[9]	[9]	[9]

[0]	[0]	[0]	[0]	[0]	[0]
[1]	[1]	[1]	[1]	[1]	[1]
[2]	[2]	[2]	[2]	[2]	[2]
[3]	[3]	[3]	[3]	[3]	[3]
[4]	[4]	[4]	[4]	[4]	[4]
[5]	[5]	[5]	[5]	[5]	[5]
[6]	[6]	[6]	[6]	[6]	[6]
[7]	[7]	[7]	[7]	[7]	[7]
[8]	[8]	[8]	[8]	[8]	[8]
[9]	[9]	[9]	[9]	[9]	[9]

[0]	[0]	January	2012
[1]	[1]	February	2013
[2]	[2]	March	2014
[3]	[3]	April	2015
	[4]	May	2016
	[5]	June	2017
	[6]	July	2018
	[7]	August	2019
	[8]	September	2020
	[9]	October	2021
		November	2022
		December	2023

SECTION 1: COMPREHENSION

1

A	
B	
C	
D	
E	

2

A	
B	
C	
D	
E	

3

A	
B	
C	
D	
E	

4

A	
B	
C	
D	
E	

5

A	
B	
C	
D	
E	

6

A	
B	
C	
D	
E	

7

A	
B	
C	
D	
E	

8

A	
B	
C	
D	
E	

9

A	
B	
C	
D	
E	

10

A	
B	
C	
D	
E	

11

A	
B	
C	
D	
E	

12

A	
B	
C	
D	
E	

SECTION 2: VERBAL REASONING

Example

s	
t	
a	
i	
d	

13

b	
l	
a	
c	
k	

14

b	
i	
t	
e	
s	

15

c	
a	
r	
e	
d	

16

b	
r	
i	
d	
e	

17

h	
a	
u	
n	
t	

Example

6	
4	
5	
8	
7	

18

2	
0	
1	
3	
4	

19

6	
4	
5	
1	
2	

20

14	
11	
8	
12	
10	

21

8	
11	
9	
10	
19	

22

6	
5	
2	
4	
7	

Example

leap	
heap	
pale	
seal	
heel	

23

wet	
set	
tin	
sit	
sew	

24

kind	
kits	
sand	
take	
site	

25

fat	
lap	
for	
far	
rat	

26

cast	
farm	
salt	
fast	
face	

27

bell	
ball	
tale	
brat	
tell	

28

A	
B	
C	
D	
E	

SECTION 3: NON-VERBAL REASONING

29	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

30	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

31	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

32	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

33	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

34	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

35	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

36	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

37	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

38	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

39	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

40	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

41	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

42	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

43	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

44	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

45	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

46	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

SECTION 4: MATHS

47	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

48	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

49	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

50	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

51	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

52	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

53	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

54	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

55	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

56	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

57	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

58	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

59	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

60	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

61	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

62	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

63	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

64	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

65	A ☐	☐
	B ☐	☐
	C ☐	☐
	D ☐	☐
	E ☐	☐

GL TEST PAPER E

Please read the following before you start the test :-

1. Do not begin the test until you are told to do so.
2. This is a multiple choice test so you need to mark your answers on the separate answer sheets, not in this booklet.
3. There are four sections in this test.
4. Mark your answers clearly on the answer sheets using a pencil. In the column that has the same number as the test question, draw a firm line clearly through the correct answer. Do not cross out any answers – if you want to change an answer, rub it out completely and put in your new answer. Be sure to keep your place on the answer sheet.
5. Try and answer as many questions as you can. If you cannot answer a question, do not waste time on it but go on to the next question. If you are not sure of an answer, choose the one you think is best.
6. You may do any rough working out in the booklet.
7. Work as quickly and as carefully as you can.

