

HEARTHPREP

11+ Non-Verbal Reasoning Simulation Paper 1

Practice Paper — Simulation

Time allowed: 24 minutes

Total marks: 24

Questions: 24

Written by Hearthprep to simulate the real exam, with a full worked solution for every question and no missing diagrams. No school set it and it is not a past paper.

INSTRUCTIONS

- Answer ALL questions.
- Choose one answer for each question.
- You may NOT use a calculator.
- Check your work if you finish early.

1. Which option completes the rotating-arrow sequence?

[1 mark]

Question 1



Hearthprep original non-verbal reasoning figure

- A** Option A
C Option C
E Option E

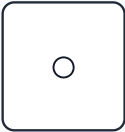
- B** Option B
D Option D

2. Which option completes the alternating shape-and-fill sequence?

[1 mark]

Question 2





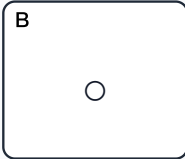


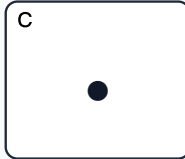


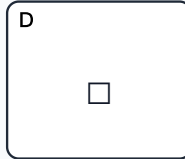




A

B

C

D

E

Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

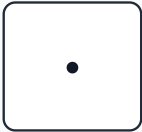
Option D
- E

Option E

3. Which option completes the growing-dot sequence?

[1 mark]

Question 3



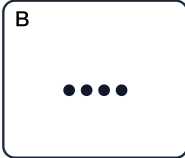


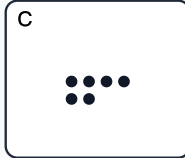


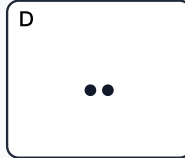


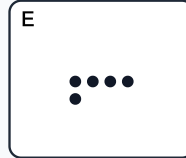


A

B

C

D

E

Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

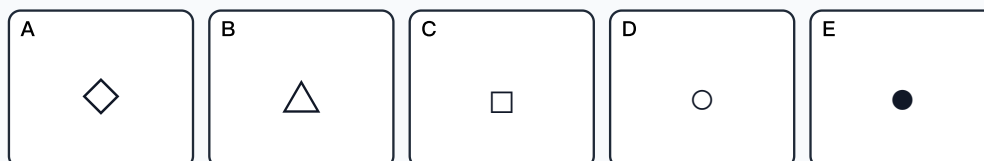
Option D
- E

Option E

4. Which option completes the repeating sequence?

[1 mark]

Question 4



Hearthprep original non-verbal reasoning figure

- ☐ A Option A
- ☐ C Option C
- ☐ E Option E

- ☐ B Option B
- ☐ D Option D

5. Which option is the odd one out?

[1 mark]

Question 5



Hearthprep original non-verbal reasoning figure

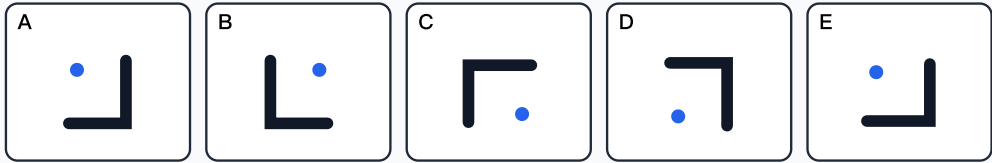
- ☐ A Option A
- ☐ C Option C
- ☐ E Option E

- ☐ B Option B
- ☐ D Option D

6. Four options are rotations of the same shape. Which is the mirror image?

[1 mark]

Question 6



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

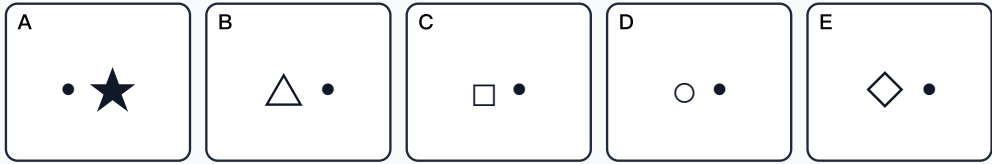
Option D
- E

Option E

7. Which option does not belong with the others?

[1 mark]

Question 7



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

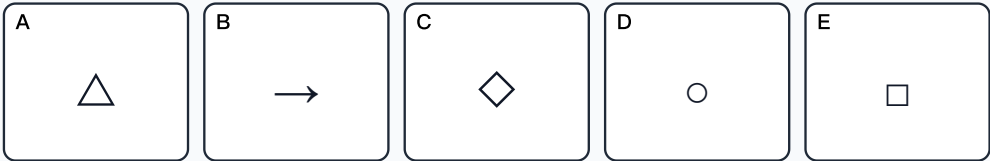
Option D
- E

Option E

8. Which shape has a different line of symmetry?

[1 mark]

Question 8



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

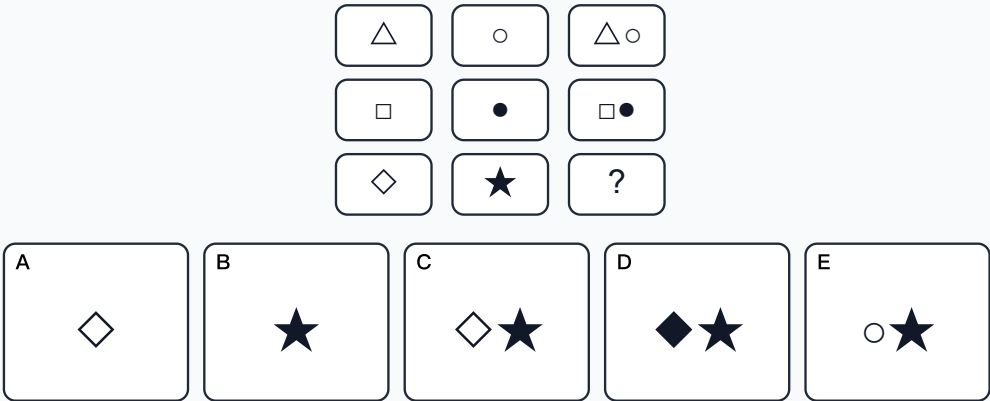
Option D
- E

Option E

9. In each row, the third box combines the first two. Which option completes the matrix?

[1 mark]

Question 9



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

Option D
- E

Option E

10. Which option completes the matrix?

[1 mark]

Question 10

○	●	○
●	○	●
○	●	?

A

●

B

○

C

□

D

■

E

◇

Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

Option D
- E

Option E

11. Which arrow completes the matrix?

[1 mark]

Question 11

→	↓	←
↓	←	↑
←	↑	?

A

↑

B

↓

C

←

D

→

E

↗

Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

Option D
- E

Option E

12. The third box in each row contains the total number of dots in the first two. Which option completes the matrix? [1 mark]

Question 12

•	••	•••
••	•••	••••
•••	••••	?

A

B

C

D

E

Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

Option D
- E

Option E

13. The first shape is turned 90° clockwise to make the second. Apply the same change to the arrow. [1 mark]

Question 13

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A

B

C

D

E

Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

Option D
- E

Option E

14. The first pair is reflected in a vertical mirror. Apply the same reflection to the second figure. [1 mark]

Question 14

• →

← •

▲ •

?

A

▲ •

B

• ▲

C

▼ •

D

• ▼

E

▲ ▲

Hearthprep original non-verbal reasoning figure

A

Option A

B

Option B

C

Option C

D

Option D

E

Option E

15. The first shape is turned through 180°. Apply the same rotation to the arrow. [1 mark]

Question 15

L •

└ •

↑

?

A

↓

B

↑

C

→

D

←

E

↗

Hearthprep original non-verbal reasoning figure

A

Option A

B

Option B

C

Option C

D

Option D

E

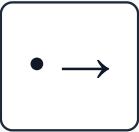
Option E

16. The first shape is reflected in a vertical mirror. Apply the same reflection to the dot-and-arrow figure. [1 mark]

Question 16

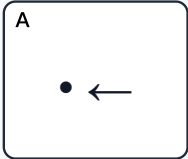




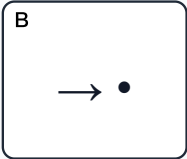




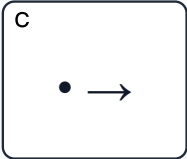
A



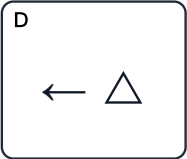
B



C



D



E



Hearthprep original non-verbal reasoning figure

- ☐ A

 Option A
- ☐ B
- Option B

☐ C

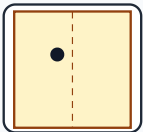
 Option C☐ D

☐ E

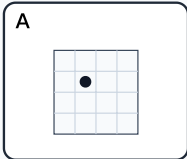
 Option E

17. A square is folded on the vertical dashed line and one hole is punched. Which option shows the holes after unfolding? [1 mark]

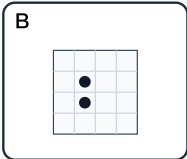
Question 17



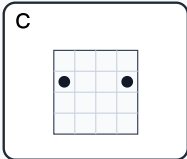
A



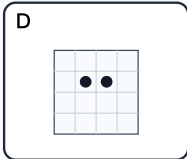
B



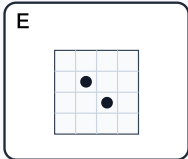
C



D



E



Hearthprep original non-verbal reasoning figure

- ☐ A

 Option A
- ☐ B
- Option B

☐ C

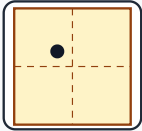
 Option C☐ D

☐ E

 Option E

18. The square is folded once vertically and once horizontally before one hole is punched. Which option shows the unfolded holes? [1 mark]

Question 18



A

B

C

D

E

Hearthprep original non-verbal reasoning figure

- A

Option A

C

Option C

E

Option E
- B

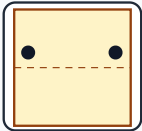
Option B

D

Option D

19. A square is folded horizontally and two holes are punched. Which option shows the result after unfolding? [1 mark]

Question 19



A

B

C

D

E

Hearthprep original non-verbal reasoning figure

- A

Option A

C

Option C

E

Option E
- B

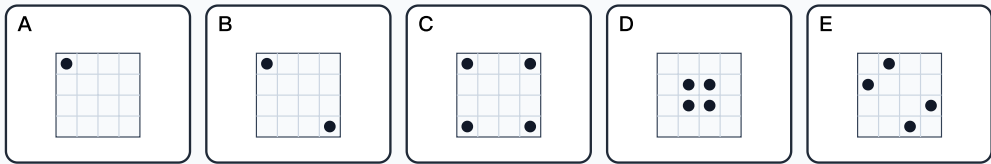
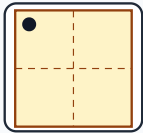
Option B

D

Option D

20. The paper is folded into quarters and a hole is punched near the outer corner. Which option shows the unfolded pattern? [1 mark]

Question 20



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

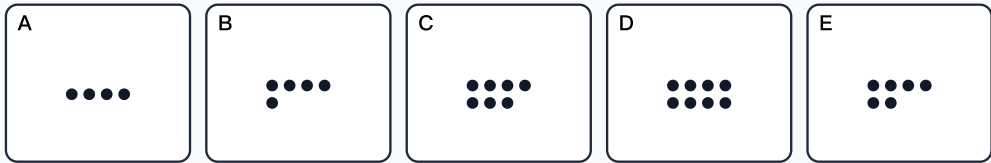
Option C
- D

Option D
- E

Option E

21. How many cubes are in this stack? Choose the option with that many dots. [1 mark]

Question 21



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

Option D
- E

Option E

22. Which option is the view from directly above the cube stack? FRONT is the bottom edge of both the stack diagram and each answer grid. [1 mark]

Question 22



A



B



C



D



E



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

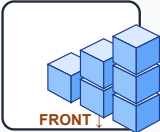
Option C
- D

Option D
- E

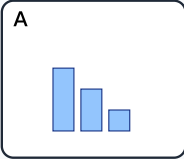
Option E

23. Look from the side marked FRONT. Which option shows the three column heights from left to right? [1 mark]

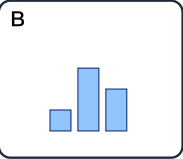
Question 23



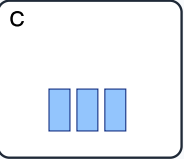
A



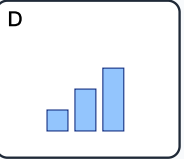
B



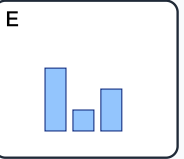
C



D



E



Hearthprep original non-verbal reasoning figure

- A

Option A
- B

Option B
- C

Option C
- D

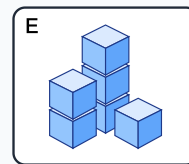
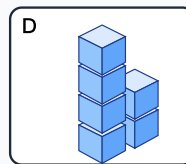
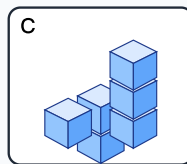
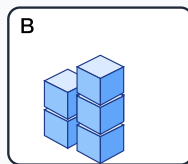
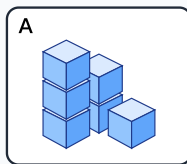
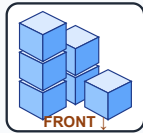
Option D
- E

Option E

24. The cube stack is turned 90° clockwise on the table, as seen from above. Which option shows the rotated stack?

[1 mark]

Question 24



Hearthprep original non-verbal reasoning figure

A Option A

C Option C

E Option E

B Option B

D Option D