## $0_{0}^{+N_{0}}$

# VERBAL REASONNG 

## 11+

## Practice Exercises

## For the CEM(Durham University) Test

10.11


Practice Exercises
For $111+$ f
with
New, Téchniques;


# Published by LEC Education 

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# NON VERBAL REASONING WITH CEM STYLE QUESTIONS 

## Practice questions


M.Nat

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This book is designed to cover the question types set by the CEM. We cannot guarantee that your child will face the same type of questions in their actual 11+ examinations. Nonetheless, the sections in this book are intended to cover the different skills that are tested in these examinations. Parents must be aware that the 11+ examinations now consist of four core subject areas: Verbal Reasoning, English, Non Verbal Reasoning and Maths. Our experienced teachers are working hard to produce more books that will assist students with their preparation for this test.

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## CODES

Select the code which matches the shape given.

## EXAMPLE



| $P$ | $Z$ | $Z$ | $P$ | $Y$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $Y$ | $Y$ | $R$ | $R$ | $R$ |
| (a) | $b$ | $c$ | $d$ | $e$ |

1. 





| $A$ | $A$ | $B$ | $P$ |
| :--- | :--- | :--- | :--- | :--- |


| R | Q | b | P | Q |
| :---: | :---: | :---: | :---: | :---: |
| a | b | c | d | e |

3. 



5.



| p | Q | Q | b | Q |
| :---: | :---: | :---: | :---: | :---: |
| a | b | c | d | e |

6. 



$A B A$ | R | $\begin{array}{ll}\mathrm{R} & \\ \mathrm{a} & \mathrm{P} \\ \mathrm{a} & \mathrm{b}\end{array}$Q | Q | d |
| :---: | :---: | :---: | :---: | :---: |

7. 



$\mathrm{A}, \mathrm{B}, \mathrm{A}, \mathrm{C}$ | Q | R | R | R | P <br> $a$ |
| :---: | :---: | :---: | :---: | :---: |
| a | c | d | e |  |


$\mathrm{B}, \mathrm{C} \quad \mathrm{A} \quad \mathrm{P}$


$\mathrm{A}, \mathrm{B} \quad \mathrm{C} \quad \mathrm{P}$

| R | $\begin{array}{lll}\mathrm{R} & \mathrm{P} & \mathrm{Q} \\ \mathrm{a} & \mathrm{b} & \mathrm{c}\end{array}$ | Q | e |
| :---: | :---: | :---: | :---: | :---: | :---: |


$A B A$


$\mathrm{B} \quad \mathrm{A} \quad \mathrm{P} \quad \mathrm{P}$

| Q | Q | B | B | Q |
| :---: | :---: | :---: | :---: | :---: | :---: |
| a | b | c | d | e |

13. 



ㄴㅁㅁㅁ | Q | Q | R | R | P |
| :---: | :---: | :---: | :---: | :---: |
| a | b | c | d | e |

14. 


a b c d e
15.

$a \quad b \quad c \quad d \quad e$

EXAMPLE
16.


| $A Q$ | $C Q$ | $C P$ | $C R$ | $B R$ |
| :---: | :---: | :---: | :---: | :---: |
| $a$ | $b$ | C | $d$ | $e$ |

17. 


18.

19.

20.

|  | $A C P$ |
| :---: | :---: |
|  | $A D Q$ |
|  | $B C R$ |


| $A D C$ | $P Q R$ | $B P Q$ | $B D A$ | $B C P$ |
| :---: | :---: | :---: | :---: | :---: |
| $a$ | $b$ | $c$ | $d$ | $e$ |


| Attempts | No. of <br> Corrections | Date | Sign |
| :---: | :---: | :---: | :---: |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

## SERIES

Find the shape or pattern which completes or continues the given series.
EXAMPLE
 one.
1.

2.

a

| 图这 |
| :---: |


3.

4.

a

c
d e
5.

6.

7. $\stackrel{\sim}{r}$ $\sum_{0}$

8.
 ? $\frac{8}{8 \square} \frac{\text { b }}{8} \frac{8}{8} \square$ $\frac{d}{2-8 \Delta}$
9.

10.

11.


12.

13.

14.

15.

16.

17.

18.

a b

19.

20.


| Attempts | No. of <br> Corrections | Date | Sign |
| :---: | :---: | :---: | :---: |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

## ANALOGY

Find the shape or pattern which completes the second pair in the same way as the first pair.

EXAMPLE


Explanation: in the original figure, the outer shaded shape becomes unshaded. The inner figure becomes shaded.
1.

2.

3.

4.



b
C
d
e
6.

$$
01-8: 8-8|8| \Delta|8| \Delta
$$

，国：国
8.

9.

10.

11.

12.


14.

15.




19.

20.


| Attempts | No. of <br> Corrections | Date | Sign |
| :---: | :---: | :---: | :---: |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

## ODD ONE OUT

Which one is odd?
EXAMPLE


Explanation: every single shape has the same number of sides, except one.
1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

| $\left\langle\begin{array}{c} \square \square \\ \square \square \square \\ \square \square \square \end{array}\right\rangle$ |  |  | $\left\langle\begin{array}{l} \square \\ \square \end{array}\right\rangle$ | $\left\langle\begin{array}{c} \square \\ \square \end{array}\right\rangle$ |
| :---: | :---: | :---: | :---: | :---: |
| a | b | C | d | e |

12. 


13.

14.

15.

16.

17.

18.

19.

20.


| Attempts | No. of <br> Corrections | Date | Sign |
| :--- | :--- | :--- | :--- |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

## SIMILARITY

Choose the shape or pattern from the right-hand side that belongs to the set on the left hand side.

EXAMPLE


Explanation: in the original shapes, the outer and inner figures are the same.
1.

2.

3.
$3 \quad 37$ 43

4.
Pr
5.

6.

7.

8.


10.

11.

13.

14.

15.

16.

17.

18.

$$
\begin{gathered}
\{\& \&\{ \\
\left\{_{s}\right.
\end{gathered}
$$


19.

20.


| Attempts | No. of <br> Corrections | Date | Sign |
| :--- | :--- | :--- | :--- |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

## REFLECTION

Which shape on the right is the reflection of the shape on the left?

## EXAMPLE



a

(b)

c

d

e

Explanation: the original shape is facing towards the mirror, so the answer must also be facing towards the mirror.
1.


a

b

c

d

e

a
c

d


e
3.

a
b

b

c

d

e
4. $\quad \checkmark$



5.





6.




c

d
$\square$
e
7.





9.

a

b

c
d

e
10.


b
a

## 亿约 <br> b


c

c


c

d

e
d


e
11.


a

b

d

e
13.
\%
$8^{\circ}$
a

b
100
c

d
e
14. $\hat{\mathrm{Q}}$

a

b


c
$\cdots \rightarrow$
d


C


16.

a

b

b

c

b

c
d

e


e
17.

a

a
18.

19. $\| \square$

a

a

c


d

e
20.


b

b

| Attempts | No. of <br> Corrections | Date | Sign |
| :---: | :---: | :---: | :---: |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

## MATRIX

Which one comes in the next square?
EXAMPLE

1.

3.

4.


6.

8.

9.

10.

11.

12.

13.

14.

15.

16.

18.
AR

|  |  |  |  | $\sqrt{5}$ |
| :---: | :---: | :---: | :---: | :---: |
| a | b | c | d | e |

19. 


20.


| Attempts | No. of <br> Corrections | Date | Sign |
| :---: | :---: | :---: | :---: |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

## FIND THE FIGURE

The figure on the left side is embedded in the one of the figures on right in the same way. Find that figure.

EXAMPLE
$\sim$

a

b

C

(d)

e
1.





a
b
c
d
e
2.

a

b

c

d

e
3.


b

C

d

a

b

c

d

e


c

d

e
5.


e
6.

## D


a

b

$\forall$
C

d

e
${ }^{7}$
9.

a

b

c


##  <br> b <br> a <br> $\infty$



C

9.
9.

9.

10.


8
d

e
11.

12.

a

a


b


C

d

e
13.

b

C

d
e
14.


C

d
e
15.

a

b

d

e
16.

17.

d
e


c

18.
18.

a
19.

20.


b

b

## PAIR ANALOGY

EXAMPLE


Explanation: the figures on the top and bottom are the same and are facing in the same direction. One shaded circle has been added to the figure on the bottom, touching the bottom side of the shape. Therefore, the answer figure must follow the same pattern.
1.




3.


5.

6.


9.

10.

11.

12.

13.


14.

8
a
b
III| 888
c
d
15.

16.

a
b
C
d
17.

18.

19.

a
b
C


| Attempts | No. of <br> Corrections | Date | Sign |
| :---: | :---: | :---: | :---: |
| Attempt 1 |  |  |  |
| Attempt 2 |  |  |  |

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Maths, English, Science, Physics, Chemistry, Biology , Statistics, Mechanics

## 11+

Verbal Reasoning (CEM Style), Non Verbal reasoning (CEM style \& GLS )

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