

YanBo Free 11+ VR Mock Test

Website: yanbo.co.uk

Subject: VR

Areas covered: Word Relationships; Code & Logic; Sequence & Pattern

Difficulty: Medium

Time allowed: 30 minutes

Questions: 30

Student name:

Date completed:

Score:

Read the following with your child:

1. This is a multiple-choice paper. Mark only one answer for each question on the separate answer sheet.
2. Draw a firm line clearly through the rectangle next to your answer, like . If you make a mistake, rub it out completely and put in your new answer.
3. Keep your place in the correct section of the answer sheet. Mark your answer in the box with the same number as the question.
4. You may find some questions difficult. If you cannot do a question, do not waste time on it. Go on to the next one and choose the answer you think is best.
5. **Work as quickly and as carefully as you can.**

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Questions

Question 1. Which pair has the same relationship as 'sieve : separate'?

- A. broom : dust
- B. knife : bread
- C. ruler : length
- D. hammer : pound

Question 2. Which pair has the same relationship as 'sapling : tree'?

- A. branch : tree
- B. tree : sapling
- C. horse : stable
- D. foal : horse

Question 3. Complete the analogy: conductor is to orchestra as coach is to ____.

- A. player
- B. stadium
- C. team
- D. referee

Question 4. Which pair has the same relationship as 'mechanic : garage'?

- A. car : garage
- B. mechanic : car
- C. garage : mechanic
- D. miner : mine

Question 5. Which pair has the same relationship as 'thermometer : temperature'?

- A. clock : time
- B. book : page
- C. pencil : drawing
- D. key : lock

Question 6. Complete the analogy: national anthem is to nation as team badge is to _____.

- A. school
- B. team
- C. cave
- D. garden

Question 7. When describing an animal, which word is opposite in meaning to 'TAME'?

- A. wild
- B. docile
- C. trained
- D. gentle

Question 8. Which pair has the same relationship as 'brick : wall'?

- A. wall : brick
- B. clay : pot
- C. builder : house
- D. tile : mosaic

Question 9. Complete the analogy: dictionary is to definitions as atlas is to _____

- A. maps
- B. garden
- C. school
- D. cave

Question 10. Which pair has the same relationship as 'write : pen'?

- A. author : book
- B. paper : write
- C. cut : scissors
- D. ruler : measure

Question 11. Cara sits to the left of Dylan. Dylan sits to the left of Ben. Ben sits to the left of Ava. Ava sits to the left of Esha. Who sits second from the left?

- A. Cara
- B. Dylan
- C. Ben
- D. Ava

Question 12. A 5-digit number is coded by adding 2 to each odd digit and subtracting 1 from each even digit. If 58281 becomes 77173, what does 14141 become?

- A. 22222
- B. 14141
- C. 36363
- D. 33333

Question 13. A code is made by replacing each letter with its opposite in the alphabet and then reversing the result. If PATH becomes SGZK, what does MIND become?

- A. WMRN
- B. DNIM
- C. NRMW
- D. MIND

Question 14. Using alphabet values, multiply letters in positions 1, 3, 5, ... by 1 and positions 2, 4, 6, ... by 2. What is the code for JUNGLE?

- A. 102
- B. 108
- C. 96
- D. 107

Question 15. A code is made by reversing the word and then moving each letter forward by 1. If PLANE becomes FOBMQ, what does CROWN become?

- A. OXPSD
- B. NWORC
- C. DSPXO
- D. CROWN

Question 16. A code is made by replacing each letter with its opposite in the alphabet and then reversing the result. If CLUE becomes VFOX, what does RING become?

- A. GNIR
- B. IRMT
- C. RING
- D. TMRI

Question 17. A code moves the last two letters of a word to the front and then moves every letter forward by 1 place. How is STONE coded?

- A. PGUVQ
- B. NESTO
- C. OFTUP
- D. GPQVU

Question 18. In a code, letters in odd positions move forward 2 places and letters in even positions move back 1 place. If BRICK becomes DQKBM, what does PLANT become?

- A. RKCMV
- B. RMCNV
- C. NJYMR
- D. PLANT

Question 19. In a code, words are changed by reversing the word, replacing each letter with its alphabet opposite, then moving alternate letters forward by 1 and 2. If THOUGHT becomes HUUHMUH, choose the code for PUZZLER.

- A. PUZZLER
- B. RELZZUP
- C. JXPCBHL
- D. QVAAMFS

Question 20. In a code, the second letter and the second-last letter swap places. If POCKET becomes PECKOT, what does PLANET become?

- A. PEANLT
- B. TENALP
- C. LANETP
- D. PLANET

Question 21. Read alternate positions separately: M, C, K, E, I, __. What is the next letter?

- A. G
- B. F
- C. H
- D. J

Question 22. Complete the number pattern: 7, 12, 24, 29, 58, __

- A. 116
- B. 62
- C. 65
- D. 63

Question 23. What comes next in this sequence of letters: A, E, D, H, G, __?

- A. J
- B. L
- C. K
- D. M

Question 24. Which number completes the pattern: 4, 9, 16, 25, 36, __?

- A. 47
- B. 48
- C. 50
- D. 49

Question 25. Find the next term in the sequence: A5, C9, E13, G17, I21, __

- A. J25
- B. K25
- C. K23
- D. L25

Question 26. Which number completes the sequence: 13, 18, 25, 34, 45, __?

- A. 56
- B. 57
- C. 58
- D. 59

Question 27. Two number patterns are interleaved: 4, 30, 8, 27, 12, __. What comes next?

- A. 20
- B. 21
- C. 23
- D. 24

Question 28. What should replace the blank: 9, 27, 22, 66, 61, ___?

- A. 178
- B. 56
- C. 188
- D. 183

Question 29. Find the next number in the sequence: 2, 25, 4, 21, 6, ___

- A. 8
- B. 21
- C. 17
- D. 18

Question 30. Which number completes the sequence: 3, 7, 12, 18, 25, ___?

- A. 32
- B. 33
- C. 34
- D. 29

End of questions

Student answer sheet

Name: _____

Date: _____

Test: YanBo Free 11+ VR Mock Test

Score: _____ / 30

Draw one clear horizontal line through the rectangle next to your answer, like .

1 A ☐ B ☐ C ☐ D ☐	2 A ☐ B ☐ C ☐ D ☐	3 A ☐ B ☐ C ☐ D ☐	4 A ☐ B ☐ C ☐ D ☐	5 A ☐ B ☐ C ☐ D ☐	6 A ☐ B ☐ C ☐ D ☐	7 A ☐ B ☐ C ☐ D ☐	8 A ☐ B ☐ C ☐ D ☐
9 A ☐ B ☐ C ☐ D ☐	10 A ☐ B ☐ C ☐ D ☐	11 A ☐ B ☐ C ☐ D ☐	12 A ☐ B ☐ C ☐ D ☐	13 A ☐ B ☐ C ☐ D ☐	14 A ☐ B ☐ C ☐ D ☐	15 A ☐ B ☐ C ☐ D ☐	16 A ☐ B ☐ C ☐ D ☐
17 A ☐ B ☐ C ☐ D ☐	18 A ☐ B ☐ C ☐ D ☐	19 A ☐ B ☐ C ☐ D ☐	20 A ☐ B ☐ C ☐ D ☐	21 A ☐ B ☐ C ☐ D ☐	22 A ☐ B ☐ C ☐ D ☐	23 A ☐ B ☐ C ☐ D ☐	24 A ☐ B ☐ C ☐ D ☐
25 A ☐ B ☐ C ☐ D ☐	26 A ☐ B ☐ C ☐ D ☐	27 A ☐ B ☐ C ☐ D ☐	28 A ☐ B ☐ C ☐ D ☐	29 A ☐ B ☐ C ☐ D ☐	30 A ☐ B ☐ C ☐ D ☐		

Questions and Answers

Q	A	Explanation
1	D	A sieve is a tool used for separating materials, while a hammer is a tool used for pounding or striking. The relationship is tool to characteristic action.
2	D	A sapling is a young tree, while a foal is a young horse. The relationship is young form to adult kind.
3	C	A conductor leads an orchestra, while a coach leads a team. The relationship is leader to the group they direct.
4	D	A mechanic characteristically works in a garage, while a miner characteristically works in a mine. The relationship is occupation to workplace.
5	A	A thermometer indicates temperature, while a clock indicates time. The relationship is instrument to the information it measures or shows.
6	B	A national anthem represents a nation, while a team badge represents a team.
7	A	A tame animal is accustomed to people and is not wild. Wild is therefore the clearest antonym.
8	D	A brick is one component used to form a wall, while a tile is one component used to form a mosaic. The relationship is component to a larger constructed whole.
9	A	A dictionary contains definitions; an atlas contains maps.
10	C	A pen is a tool used for writing, while scissors are a tool used for cutting. The relationship is action to characteristic tool.
11	B	From left to right the order is Cara, Dylan, Ben, Ava, Esha. Dylan is second from the left.
12	D	Apply the rule digit by digit to 14141; the result is 33333.
13	A	Find the opposite-letter form of MIND, then reverse it. This gives WMRN.
14	A	Use multiplier 1 on odd positions and multiplier 2 on even positions, then add. For JUNGLE, the correct total is 102.
15	A	Reverse CROWN first, then move each letter forward by 1; this gives OXPSD.
16	D	Find the opposite-letter form of RING, then reverse it. This gives TMRI.
17	C	Move NE to the front: STONE becomes NESTO. Move every letter forward by 1 to get OFTUP.
18	A	Apply the rule by position: P → R, L → K, A → C, N → M and T → V. Therefore PLANT becomes RKCMV.
19	C	Reverse the word, change every letter to its alphabet opposite, then move alternate positions forward by 1 and 2. PUZZLER therefore becomes JXPCBHL.
20	A	Swap the second and second-last letters of PLANET; the result is PEANLT.

Q	A	Explanation
21	A	The odd-position letters M, K, I move backwards by 2. The even-position letters C, E, G move forwards by 2. The missing letter is G.
22	D	The rule alternates +5 and $\times 2$. After 29 to 58 is $\times 2$, add 5 next to get 63.
23	C	The pattern alternates +4 letters, then -1 letter. After H to G is -1, move forward 4 letters from G to K.
24	D	The gaps are +5, +7, +9 and +11. The next gap is +13, so $36 + 13 = 49$.
25	B	The letter jumps by 2 and the number increases by 4, so the next term is K25.
26	C	The gaps increase by 2 each time: +5, +7, +9, +11, so the next gap is +13. The next number is 58.
27	D	The odd-position numbers are 4, 8, 12, increasing by 4. The even-position numbers are 30, 27, 24, decreasing by 3. The missing number is 24.
28	D	The pattern alternates $\times 3$, -5, so the next number is 183.
29	C	There are two interleaved patterns: one increasing by 2, one decreasing by 4. So the next number is 17.
30	B	The gaps increase by 1 each time, so the next number is 33.

End of answers