z1. What numbers should replace the question marks?

100,95, ?, 79,68, ?, 40, 23

2.Which word has the meaning closest to GLUTINOUS?

Churlish ,adhesive ,hungry, bright, desolate

3. Complete the sequence.

0, 1, 4, 9, 16,25, 36,49, ?

4. Put the following words into alphabetical order:

arthropod, arteriole, articular, artillery

5. The white dot moves two places anti-clockwise at each stage and the black dot moves one place clockwise at each stage. After how many stages will they be together in the same corner?

6. What number should replace the question mark?

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 7 |  | | | 5 |  | | | 13 |  |
| 9 | 3 | 6 |  | 4 | 2 | 6 |  | 19 | ? | 11 |
|  | 2 |  |  | 1 |  |  | 5 |  |
|  |  |  |  |  |  |  |  |  |  |  |

7.

|  |  |
| --- | --- |
|  |  |
|  |  |

Which is the missing square?

A B C D E

8.

A B C D E

Which is the odd one out?

9.

How many circles appear above?

10. Which is the odd one out?

A

B

C

E

D

11. Gordon is twice as old as Tony was when Gordon was as oldas Tony is now.

The combined age of Gordon and Tony is 112 years. How old are Gordon and Tony now?

12.

A

C

D

B

Which three of the four pieces below can be fitted together to form a perfect square?

13. 329 : 15

746 : 34

Which numbers below have the same relationship to each other as the two sets of numbers above?

1. 287 : 22 b. 698 : 62 c. 942 : 68 d. 382 : 12 e. 749 : 35

14. 32 + 272 = ?

Complete the equation by correctly identifying the missing part of the calculation from the list of options below.

a. 1242 − 505 b. 1478÷ 2 c. 1232\*0.06 d.12546/17 e. 148\*4

15. How many minutes is it before 12 noon if 1 hour 39 minutes ago it was twice as many minutes past 8 am?

16. A B C D E F G H

What letter comes three to the right of the letter that comes immediately to the left of the letter that comes three to the right of the letter immediately to the left of the letter B?

17. Which does not belong in this sequence?

##### A B C D E F G

18.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | ? |  |
|  |  | ? |

Which two squares are missing?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | |  | |  | | | |  | |  | |
| A |  | B | | | |  | | C | | | |  | |
|  |  |  |  | |  | | | |  | |  | |  |
|  |  |  | D | |  | | E | | | |  | |  |

19. ?

What comes next in the above sequence?

A B C D E

20. Which of the following is not an anagram of a type of fruit?

a. rip coat b. ova coda c. burly beer c. real madam

d. pipe panel e. alert women f. part figure

21. Use every letter of the phrase PROPOUND RARE MAGIC once each only to spell out the names of three elements.