ARITHMETICAL REASONING

1. A tailor had a number of shirt pieces to cut from a roll of fabric. He cut each roll of equal length into 10 pieces. He cut at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes?

A. 30 rolls

B. 58 rolls

C. 120 rolls

D. 150 rolls

2. A monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent at 8.00 a.m., at what will he first touch a flag at 120 feet from the ground?

A. 4 p.m

B. 5 p.m.

C. 6 p.m.

D. 8 p.m.

3. A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C and D?

A. 3

B. 6

C. 9

D. 12

4. A girl counted in the following way on the fingers of her left hand : She started by calling the thumb 1, the index finger 2, middle finger 3, ring finger 4, little finger 5 and then reversed direction calling the ring finger 6, middle finger 7 and so on. She counted upto 1994. She ended counting on which finger?

A. Ring finger

B. Middle finger

C. Thumb

D. Index finger

5. Between two book ends in your study are displayed your five favourite puzzle books. If you decide to arrange the five books in every possible combination and moved just one book every minute, how long would it take you?

A. 2 hours

B. 3 hours

C. 4 hours

D. 5 hours

6. The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner?

A. 10

B. 15

C. 29

D. 61

7. A man has Rs. 480 in the denominations of one rupee notes, five rupee notes and ten rupee notes. The number of each denomination is equal. What is the total number of notes that he has?

A. 45

B. 75

C. 90

D. 120

8. In a caravan, in addition to 5o hens, there are 45 goats and 8 camels with some keepers. If the total number of feet be 224 more than the number of heads in the caravan, the number of keepers is

A. 5

B. 8

C. 10

D. 15

9. A father is now three times as old as his son. Five years back, he was four times as old as his son. The age of the son(in years) is

A. 10

B. 12

C. 15

D. 18

10. Aruna cut a cake into two halves and cuts one half into smaller pieces of equal size. Each of the small pieces is twenty grams in weight. If she has seven pieces of the cake in all with her, how heavy was the original cake?

A. 100 grams

B. 150 grams

C. 200 grams

D. 240 grams

11. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether?

A. 54

B. 84

C. 104

D. 108

12. The number of boys in a class is three times the number of girls. Which one of the following numbers cannot represent the total number of children in the class?

A. 40

B. 42

C. 44

D. 48

13. Find the number which when added to itself 13 times, gives 112.

A. 5

B. 6

C. 7

D. 8

14. A bus starts from city X. The number of women in the bus is half of the number of men. In city Y, 10 men leave the bus and five women enter. Now number of men and women is equal. In the beginning, how many passengers entered the bus?

A. 25

B. 35

C. 45

D. 55

15. A motorist knows four different routes from Bristol to Birmingham. From Birmingham to Sheffield he knows three different routes and from Sheffield to Carlisle he knows two different routes. How many routes does he know from Bristol to Carlisle?

A. 12

B. 24

C. 48

D. 60

16. A placed three sheets with two carbons to get two extra copies of the original. Then he decided to get more carbon copies and folded the paper in such a way that the upper half of the sheets were on top of the lower half. Then he typed. How many carbon copies did he get?

A. 1

B. 2

C. 3

D. 4

17. A group of 1200 persons consisting of captains and soldiers is travelling in a train. For every 15 soldiers there is one captain. The number of captains in the group is

A. 70

B. 75

C. 80

D. 85

18. There are deer and peacocks in a zoo. By counting heads they are 80. The number of their legs is 200. How many peacocks are there?

A. 10

B. 20

C. 40

D. 60

19. When Rahul was born, his father was 32 years older than his brother and his mother was 25 years older than his sister. If Rahul's brother is 6 years older than him and his mother is 3 years younger than his father, how old was Rahul's sister when he was born?

A. 5 years

B. 8 years

C. 10 years

D. 14 years

20. A man wears socks of two colours ?black and brown. He has altogether 20 black socks and 20 brown socks in a drawer. Supposing he has to take out the socks in the dark, how many must he take out to be sure that he has a matching pair?

A. 1

B. 3

C. 20

D. 39

21. Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start?

A. 5 times

B. 6 times

C. 7 times

D. 8 times

22. At the end of a business conference the ten people present all shake hands with each other once. How many handshakes will there be altogether?

A. 20

B. 30

C. 40

D. 45

23. I have a few sweets to be distributed. If I keep 2,3 or 4 in pack, Iam left with one sweet. If I keep 5 in a pack, I am left with none. What is the minimum number of sweets I have to pack and distribute?

A. 25

B. 35

C. 56

D. 65

24. A shepherd had 17 sheep. All but nine died. How many was he left with?

A. 6

B. 7

C. 8

D. 9

25. The number of boys in a class is three times the number of girls. Which one of the following numbers cannot represent the total number of children in the class ?

(A) 48

(B) 44

(C) 42

(D) 40

26.Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start ?

(A) 7 times

(B) 8 times

(C) 9 times

(D) 11 times

27. A shepherd had 17 sheep. All but nine died. How many was he left with ?

(A) Nil

(B) 8

(C) 9

(D) 17

28. A bus starts from city X. The number of women in the bus is half of the number of men. In city Y, 10 men leave the bus and five women enter. Now, number of men and women is equal. In the beginning, how many passengers entered the bus ?

(A) 15

(B) 30

(C) 36

(D) 45

29. In a family, the father took 1/4 of the cake and he had 3 times as much as each of the other members had. The total number of family members is

(A) 3

(B) 7

(C) 10

(D) 12

30. A, B, C, D and E play a game of cards. A says to B, "If you give me 3 cards, you will have as many as I have at this moment while if D takes 5 cards from you, he will have as many as E has." A and C together have twice as many cards as E has. B and D together also have the same number of cards as A and C taken together. If together they have 150 cards, how many cards has C got ?

(A) 28

(B) 29

(C) 31

(D) 35

31. In three coloured boxes - Red, Green and Blue, 108 balls are placed. There are twice as many balls in the green and red boxes combined as there are in the blue box and twice as many in the blue box as there are in the red box. How many balls are there in the green box ?

(A) 18

(B) 36

(C) 45

(D) None of these

32. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether ?

(A) 100

(B) 104

(C) 108

(D) None of these

33. In a cricket match, five batsmen A, B, C, D and E scored an average of 36 runs. D Scored 5 more than E; E scored 8 fewer than A; B scored as many as D and E combined; and B and C scored 107 between them. How many runs did E score ?

(A) 62

(B) 45

(C) 28

(D) 20

34. In a city, 40% of the adults are illiterate while 85% of the children are literate. If the ratio of the adults to that of the children is 2 : 3, then what percent of the population is literate ?

(A) 20%

(B) 25%

(C) 50%

(D) 75%

ANSWERS

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