1. **It was Monday on 4th April, 1988. What was the day on 3rd November 1987?**

A) Monday B) Sunday C) Tuesday D) Wednesday

2. **A boy was born on 14th November 1982. When was he 2 years 3 months and 15 days old?**

A) 29.2.84 B) 29.2.85 C) 1.3.84 D) 1.3.85

3. **Find the number of days in January, February and March 1972.**

A) 91 days B) 90 days C) 89 days D) None of these

Directions (4-8) :A, B, C, D, E and F are 6 mem-ber of a family. There are two copule in the family.D is A's grandmother and is B's mother. C is wifeof B and mother of F. F is grand-daughter of E.

4. **How is C related to A?**

(a) Grandfather
(b) Daughter-in-law
(c) Mother
(d) Father
(e) Son

5. **How many male members in the family?**

(a) 3 (b) 5 (c) 2 (d) 4 (e) Data inedquate

6. **Who is married couple?**

(a) AC, AE (b) CD, EF (c) BE, BC (d) DE, BC (e) AB, DE

7. **Who is /are young generation?**

(a) C,E (b) A,E (c) A,F (d) D,F (e) B,E

8. **How is D related to F?**

(a) sister (b) Sister-in-law ˇ(c) Uncle
(d) aunt (e) Grand Mother

9. Arjun can complete a work alone in 12 days and with the help Tanya in 8 days. Find the number of days Tanya need to complete 75% of the work.

(a) 10 days (b) 12 days (c) 18 days (d) 24 days (e) 36 days

10. While travelling in opposite direction, two trains of equal length crosses each other in 5 seconds. If the speed of trains are 72 km/hr and $40\ ms^{-1}$. Calculate the length of trains.

(a) 300 meter (b) 150 meter (c) 120 meter (d) 90 meter (e) None of these

11. A sphere and a cube have equal surface areas. Find the ratio of radius of sphere to side of cube.

(a) $\sqrt{21}:2\sqrt{11}$ (b) 21 : 44 (c) 14 : 42 (d) 17 : 46 (e) None of these

12. A can do a work in 36 days and B in 32 days. If they work on it together for 12 days, then what fraction of work is left?

A) 7/24 B) 9/32 C) 11/36 D) 14/72

13. A can do 50% of the job in 16 days, B can do $1/4^{th}$ of the job in 24 days. In how many days can they do $3/4^{th}$ of the job working together?

A) 24 B) 16 C) 21 D) 18

14. P can do $1/4^{th}$ of the work in 10 days, Q can do 40% of the work in 40 days and R can do $1/3^{rd}$ of the work in 13 days and s can do 37.5% of the work in 17 days. Who is less efficient?

A) P B) Q C) R D) S

15. A train has to cover a distance of 900 km in 25 hours. what should be its average speed in meters / second?

A) 20 B) 10 C) 18 D) 36

16. A part of the journey is covered in 31.5 minutes at 80 km / h and the remaining part in 16 minutes at 75 km / h. the total distance of the journey is:

A) 45 km B) 38 km C) 62 km D) 54 km

17. A person covers 5 / 18 of the total journey by train, 7/20 by bus, 26.66% of total journey by car and remaining 1330 m on foot. Find the total journey.

A) 2.6 km B) 10.8 km C) 14.4 km D) 15.2 km

18. The measure of an angle is 14° less than the measure of its complementary angle then find the value of angle ?

a) 44° b) 34° c) 52° d) 38°

19. The measure of the supplementary of an angle is 10° more than four times of original angle . find the complementary angle of that particular angle?

a) 26° b) 34° c)56° d)70°

20. If the first day of the year 1987 was Thursday, the day of the week on 31st December 1987 will be

A) Wednesday B) Thursday C) Friday D) None of These

21. If Rocky celebrated his Victory day on Tuesday, 5th January 1965, when will he celebrate his next victory day on the same day?

A) 5th January 1970 B) 5th January 1971

C) 5th January 1973 D) 5TH January 1974

22. Raju and Nirmala celebrated their first wedding anniversary on Sunday, the 5th of December 1993. What would be the day of their wedding anniversary in 1997?

A) Wednesday B) Thursday C) Friday D) Tuesday

23. If the day before yesterday was Thursday, when will Sunday be?

A) Tomorrow B) Day after tomorrow

C)Today D)Tow days after today

Directions (24-28) : A, B, C, D, E and F are 6 mem-ber of a family. There are one couple, his parentsand his children in the family. A is C's son and E isA's daughter. D is F's daughter who is E's mother.

24. Who is parent of couple?

(a) DE (b) CB (c) AC (d) BD (e) BE

25. How is A related to F?

(a) Husband (b) Wife (c) Mother

(d) Brother-in-law (e) Sister

26 Who is grand father or maternal grandfatherin the fam-ily?

(a) C (b) Data inadequate (c) E (d) A (e) D

27. **How is E related to F?**

(a) Grandmother (b) Grandson (c) Daughter (d) Son (e) Mother

28. **How is D related to A?**

(a) Sister (b) Grand daughter (c) Mother
(d) Sister-in-law (e)Daughter

29. **If A can alone do a job in 72 days then, in how many days can B alone do the job if together they can do the job in 40 days?**

A) 90 B) 108 C) 80 D) 120

30. **A can dig 1/a part of field in 20 hours, while A and B together dig complete field in 60 hours, then find how many parts of field B can dig alone in 20 hours?**

A) $\frac{(a-3)}{}$ **B)** $\frac{}{3a}$ **C)** $\frac{3a}{(a-3)}$ **D)** $\frac{(a-3)}{3a}$

31. **A can paint a house in 55 days and B can do it in 66 days. Along with C they did the job in 12 days only, then, C alone can do the job in how many days?**

A) 15 B) 20 C) 25 D) 30

32. **The ratio between the speeds of two trains is 2:5. If the first train covers 350 km in 5 hours, then the difference between the speed (in km / h) of both the trains is:**

A)) 5 B) 180 C) 350 D) 105

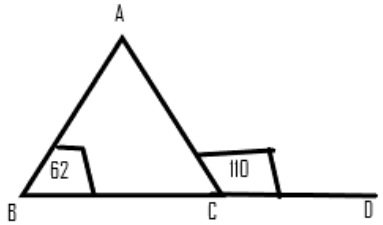
33. **If a person increases his speed by 83.33%, what will be the percentage reduction in time taken to reach the same destination?**

A) 55.55 % B) 54.54 % C) 45.45 % D) 44.44%

34. **While traveling from office to home, Giri's car got some problem, so he took 16.66% more time than the usual to reach home. His speed in this case is what percent less than his usual speed?**

A) 7.14 % B) 12.50 % C) 14.28 % D) 10 %

35. **In the figure, the measure of angle ∠BAC is:**



a) 56° b) 62° c) 58° d) 48°

36. In a triangle, values of all the angles are integers. Which one of the following cannot be the proportion of their measures?

(A) 1 : 2 : 3 **(B) 3 : 4 : 5**

(C) 5 : 6 : 7 **(D) 6 : 7 : 8**

Directions (37-41): Read the information givenbelow and answer the question that follows:

(i) E,F,G,H,I and J are six members of a family.
(ii) One couple has perents and their childrenin the fam-ily.
(iii) E is the son of G and I is the daughter of E.
(iv) H is the daughter of F who is the mother of I.

37. Who are the male members in the family?

(a) E and G
(b) G and J
(c) E,F and H
(d) Can't be determined
(e) F and J

38. Which of the following pairs is the parents ofthe childrens?

(a) FG (b) GJ (c) FJ (d) None of these (e) JF

39. Which of the following pair is the parents ofthe couple?

(a) EF (b) FG (c) EJ (d) EG (e) GJ

40. How many female members are there in thefamily?

(a) Two (b) Three (c) Four (d) Can't be determined (e) Five

41. What relationship do H and I bear to eachother?

(a) Sister and brother
(b) Mother and son
(c) Grandmother and granddaughter
(d) Sister
(e) Brother

42. If the day after tomorrow is Sunday, what day was tomorrow's day before yesterday?

A) Friday B) Thursday C) Monday D) Tuesday

43. What was the day on 31st October 1984 ?

A) Friday B) Sunday C) Wednesday D) Monday

44. What was the day on 14th March 1993?

A) Friday B) Thursday C) Sunday D) Saturday

45. On what dates of Aug 1980 did Monday fall?

A) 4th, 11th, 18th and 25th

B) 3rd, 10th, 17th and 24th

C) 6th, 13th, 20th, and 27th

D) 9th, 16th, 23rd, and 30th