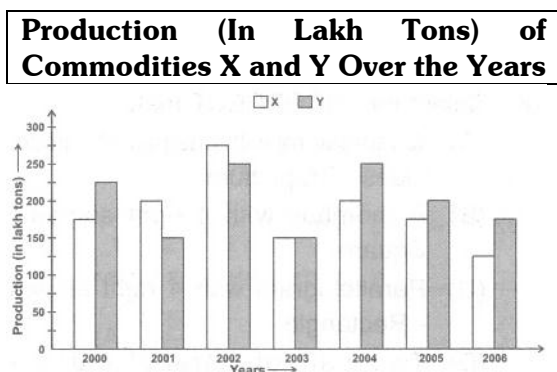


Quantitative Aptitude and Reasoning

- What least value must be given to * so that the number 97215*6 is divisible by 11?
(a) 3
(b) 2
(c) 1
(d) 5
- Which of the following is a prime number?
(a) 161
(b) 221
(c) 373
(d) 437
- The least number of square tiles required to pave the ceiling of a room 15m 17 cm long and 9 m 2 cm broad, is _____.
(a) 656
(b) 738
(c) 814
(d) 902
- Village Q is situated to the North of village P. Village R is situated to the East of village O. Village S is to the West of village P. What is the position of village S with respect to village R?
(a) West
(b) South-West
(c) South
(d) North-West
- The value of $\frac{3}{4} \div 2\frac{1}{4}$ of $\frac{2}{3} - \frac{\frac{1}{2} - \frac{1}{3}}{\frac{1}{2} + \frac{1}{3}} \times 3\frac{1}{3} + \frac{5}{6}$ is
(a) $\frac{7}{18}$
(b) $\frac{49}{54}$
(c) $\frac{2}{3}$
(d) $\frac{1}{6}$
- Two numbers are in the ratio 3 : 5. When each of these numbers is increased by 10, their ratio becomes 5 : 7. Find the greater number.
(a) 27
(b) 15
(c) 20
(d) 25
- On a scale of map 1.5 cm represents 24 km. If the distance between two points on the map is 76.5 cm, then the actual distance between these points is _____.
(a) 1071 km
(b) 1224 km
(c) 1377 km
(d) None of these
- A rectangular grassy plot having dimensions 160 m \times 45 m has a gravel path 2.5 m wide all round it on the inside. Find the cost of gravelling the path at 75 paise per m².
(a) Rs. 745
(b) Rs. 758
(c) Rs. 750
(d) Rs. 720

DIRECTION: Study the bar diagram given below and answer the questions 9 and 10.



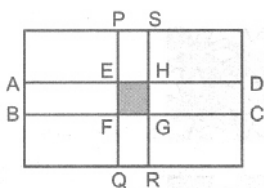
- For which of the following pair of years is the total production of X is equal to the total production of Y?
(a) 2005, 2006
(b) 2002, 2004
(c) 2001, 2005
(d) 2000, 2001

10. What is the respective ratio between total production of the two commodities together for the years 2000, 2001 and 2002 and the total production of the two commodities together for the years 2004, 2005 and 2006?
- (a) 17:15
(b) 7:6
(c) 15:22
(d) 6:7

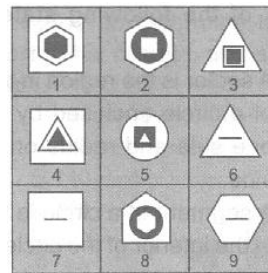
11. Which of the following is a pair of co-primes?
- (a) (14, 35)
(b) (18, 25)
(c) (31, 93)
(d) (32, 62)

12. The greatest number which divides 77, 147 and 252 leaving the same remainder 7 in each case is
- (a) 9
(b) 15
(c) 25
(d) 35

13. A rectangular lawn $80\text{ m} \times 60\text{ m}$ has two roads each 10 m wide running in the middle of it, one parallel to the length and the other parallel to the breadth. Find the cost of gravelling the roads at Rs. 30 per square metre.

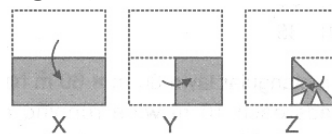


- (a) Rs. 35000
(b) Rs. 42000
(c) Rs. 40000
(d) Rs. 39000
14. Group the following figures into three classes using each figure only once.



- (a) 1, 2, 3; 4, 5, 6; 7, 8, 9
(b) 1, 3, 4; 2, 5, 8; 6, 7, 9
(c) 2, 4, 7; 5, 8, 9; 1, 3, 6
(d) 2, 5, 8; 1, 4, 7; 3, 6, 9

15. The question consists of a set of three figures X, Y and Z showing a sequence of folding of a piece of paper. Fig. (Z) shows the manner in which the folded paper has been cut. Select a figure from the options which would most closely resembles the unfolded form of Fig. (Z).



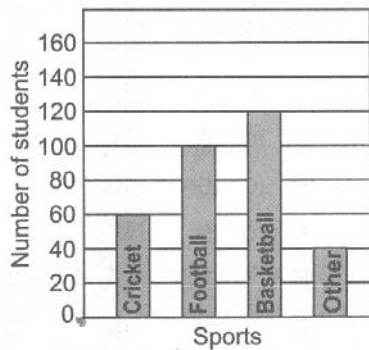
- (a)
(b)
(c)
(d)

16. Which of the following statements is true?
- (i) A sector is the region in the interior of a circle enclosed by an arc on one side and radius on the other side.
(ii) A segment of a circle is the region in the interior of the circle enclosed by an arc and a chord.
- (a) Both (i) & (ii) (b) Only (i)
(c) Only (ii) (d) Neither (i) nor (ii)

- 17.** Meera bought x packs of trading cards that contain 15 cards each. Her friend gave her 8 more cards. Which expression shows the number of cards Meera have now?
- (a) $15x + 8$
 (b) $8x + 15$
 (c) $15x - 8$
 (d) $8x - 15$
- 18.** Select the INCORRECT match.
- (a) Quadrilateral with one pair of parallel sides - Trapezium
 (b) A rhombus with 4 right angles - Square
 (c) Parallelogram with 4 right angles - Rectangle
 (d) Two pair of parallel sides – Quadrilateral
- 19.** Pointing to a boy, Purnima says, "He is the son of the only sister of my brother". How is the boy related to Purnima?
- (a) Brother
 (b) Son
 (c) Nephew
 (d) Can't be determined
- 20.** On dividing a sum of Rs. 832 between A and B in the ratio $\frac{1}{3} : \frac{1}{5}$, their shares are ____.
- (a) Rs. 520, Rs. 312
 (b) Rs. 500, Rs. 332
 (c) Rs. 530, Rs. 302
 (d) Rs. 490, Rs. 342
- 21.** Find the value of $6184.95 - 632.8 + 106.314$.
- (a) 5657.609
 (b) 5659.184
 (c) 5658.464
 (d) 5759.256
- 22.** If all the letters in the word NEIGHBOURS are rearranged in the English alphabetical order, the position of how many letters will remain unchanged after the rearrangement?
- (a) None
 (b) One
 (c) Two
 (d) Three
- 23.** The smallest fraction which should be subtracted from the sum of $1\frac{3}{4}, 2\frac{1}{2}, 5\frac{7}{12}, 3\frac{1}{3}$ and $2\frac{1}{4}$ to make the result a whole number, is ____.
- (a) $\frac{5}{12}$
 (b) $\frac{7}{12}$
 (c) $\frac{1}{2}$
 (d) 7
- 24.** Which of the following statement(s) is/are correct?
- (a) A parallelogram in which two adjacent angles are equal is a rectangle.
 (b) A quadrilateral in which both pairs of opposite angles are equal is a parallelogram.
 (c) In a parallelogram, the maximum number of acute angles can be two.
 (d) All of these
- 25.** Rakhi travelled a total distance of 15 km. If she covered $4x$ km by walk, $2y$ km by cycle and remaining by bus. The distance she covered by bus (in an algebraic expression) is ____.
- (a) $(15 + 4x - 2y)$ km
 (b) $(15 - 4x - 2y)$ km
 (c) $(15 - 4x + 2y)$ km
 (d) $(4x + 2y - 15)$ km
- 26.** In Rajeev's rose garden, $\frac{3}{12}$ are white roses, $\frac{4}{12}$ are yellow roses and the rest are red roses. What fraction of the roses are red?
- (a) $\frac{1}{12}$ (b) $\frac{5}{12}$
 (c) $\frac{3}{12}$ (d) $\frac{4}{12}$

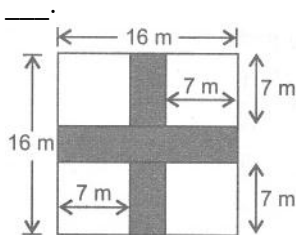
27. Rahul bought 4 kg 90 g of apples, 2 kg 60 g of grapes and 5 kg 300 g of mangoes. The total weight of all the fruits he bought is ____.
- (a) 11.000kg
(b) 11.450kg
(c) 11.350kg
(d) 11.250kg

28. Jagdish surveyed the students of his school to determine their favourite sport. The results are shown in the graph.



How many more students like Basketball than Cricket?

- (a) 60
(b) 120
(c) 20
(d) 40
29. The area of the shaded region in the figure is ____.



- (a) 207 m^2
(b) 158 m^2
(c) 256 m^2
(d) 60 m^2

30. Find the figure from the options which completes the pattern in Fig. (X)?

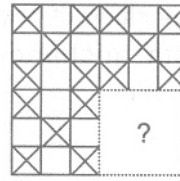


Fig. (X)

- (a)
- (b)
- (c)
- (d)

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