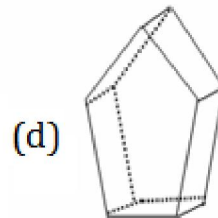
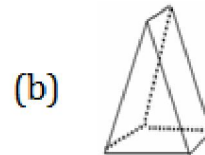
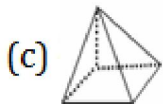
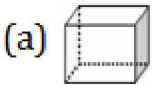


Section A (For class 6th, 7th & 8th)

- A bat ate 1050 dragon flies on four consecutive nights. Each night she ate 25 more than on the night before. How many did she eat on first night?
(a) 225 (b) 250
(c) 275 (d) 300
- HCF of 1134, 1344, 1638 is
(a) 21 (b) 42
(c) 63 (d) 7
- A cube has
(a) 8 vertices, 12 edges and 6 flat surfaces.
(b) 4 vertices, 6 edges, 6 flat surfaces.
(c) 4 vertices, 12 edges and 4 flat surfaces.
(d) 8 vertices, 6 edges, 4 flat surfaces.
- Which 3-dimensional figure has 7 faces, 15 edges and 10 vertices?



Space for Rough Work

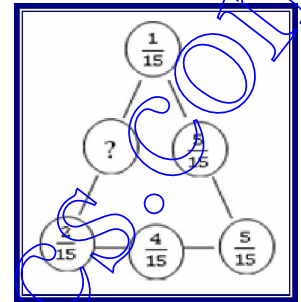
5. What should be placed in the empty space '?' so that the sum of fractions on each side of the triangle is same?

(a) $\frac{7}{15}$

(c) $\frac{6}{15}$

(b) $\frac{9}{15}$

(d) $\frac{8}{15}$



6. $xy - [yz - zx - \{yx - (3y - xz) - (xy - zy)\}]$

(A) $xy - 3y + 2xz$

(c) $-xy + 3y + 2xz$

(b) $xy + 3y + 2xz$

(d) $xy - 3y - 2xz$

7. In the word **Mathematics**, the ratio of number of consonants to the number of vowels is

(a) 4:7

(c) 5:6

(b) 7:4

(d) 6:5

Space for Rough Work

8. Which of the following correctly shows 185367249 according to International place value chart?
- (a) 1, 853, 672, 49 (b) 18, 536, 724, 9
(c) 185, 367, 249 (d) None of these
9. Roman numeral for the greatest three digit number is
- (a) IXIXIX (b) CMXCIX
(c) CMIXIX (d) CMHC
10. Which list shows the numbers in order from least to greatest?
- (a) 3, 800, 902 3, 808, 290 4, 808, 092 4, 880, 901
(b) 4, 880, 901 4, 808, 092 3, 808, 290 3, 800, 902
(c) 4, 808, 092 3, 808, 290 4, 880, 901 3, 800, 902
(d) 3, 880, 902 4, 808, 092 3, 808, 290 4, 880, 901

Space for Rough Work

11. On field day, Nitin jumped $4\frac{7}{12}$ feet and Anil jumped $3\frac{1}{6}$ feet. How much farther did

Nitin jump than Anil?

(a) 2 feet

(b) $1\frac{5}{6}$ feet

(c) $1\frac{5}{12}$ feet

(d) $\frac{5}{12}$ feet

12. If $GH = BC$, $AJ = 2DE$, $JI = \frac{1}{2} AB$, $IH = CD + DE + GH$.

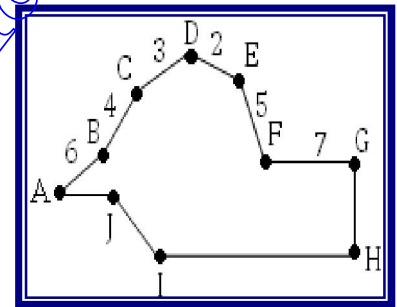
The Perimeter of the given figure is

(a) 47 units

(b) 50 units

(c) 43 units

(d) 41 units



13. Who is the father of Geometry ?

(a) Pythagoras

(b) Thales

(c) Archimedes

(d) Euclid.

14. A milkman mixes 20 liters of water with 80 liters of milk. After selling one-fourth of this mixture he adds water to replenish the quantity that he has sold. What is the current proportion of water to milk?

(a) 3:2

(b) 2:3

(c) 3:4

(d) 4:5

Space for Rough Work

15. In the new budget, the price of a petrol rose by 10%, the percent by which one must reduce the consumption so that the expenditure does not increase is :

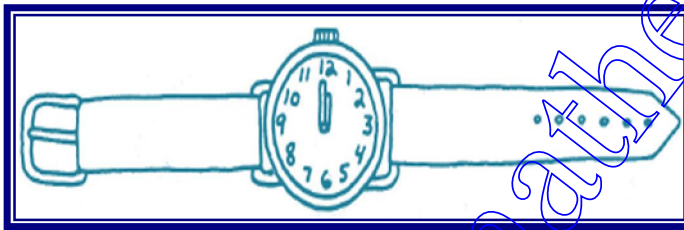
(a) $6\frac{1}{9}\%$

(b) $6\frac{1}{4}\%$

(c) $9\frac{1}{11}\%$

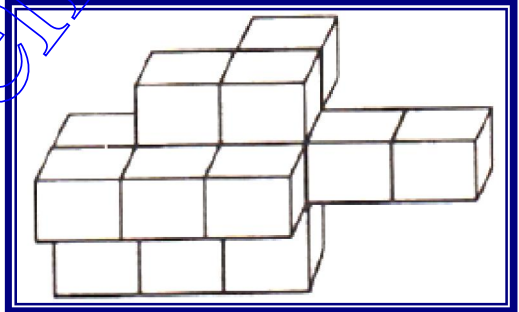
(d) 10%

16. Watch out for this wristwatch. It's all wound up – but it's headed in the wrong direction! At 12:00 it always shows the correct time. Then its hands move to the left instead of the right. See if you can figure out what time it is when the watch shows the times 8:30



- (a) 8.30
- (b) 3.30
- (c) 5.30
- (d) 4.30
17. $a \times (b + c) = a \times b + a \times c$, the property is
- (a) associative
- (b) commutative
- (c) distributive
- (d) anti-commutative
18. Like dozen is 12 articles, What is “score” equals to
- (a) 20
- (b) 30
- (c) 24
- (d) 36

Space for Rough Work

19. An old lady deposited one rupee with a shopkeeper on interest. The interest rate told to her was to make her money double every year. After fifteen years, she demanded back her money. How much should she get?
- (a) Equals to Rs.30 (b) more than Rs.30 but less than Rs.300
(c) more than Rs.30000 (d) less than Rs.30000
20. If $2x + 3y = 24$ and $2x - 3y = 12$, then the value of xy is ____.
- (a) 10 (b) 12
(c) 18 (d) 14
21. The solid below is made up of cubes. How many cubes required making the given solid?
- (a) 14 (b) 16
(c) 18 (d) 19
- 
22. A school bus travels from Delhi to Chandigarh. There are 4 children, 1 teacher and 1 driver in the bus. Each child has 4 backpacks with him. There are 4 dogs sitting in each backpack and every dog has 4 puppies. What is the total number of eyes in the bus?
- (a) 256 (b) 128
(c) 657 (d) 652

Space for Rough Work

23. The direction in which you reach, if you move from South and take one and a half revolution clockwise

(a) West

(b) East

(c) South

(d) North

24. Consider the following steps regarding the beans.

1. Fill cup A with beans.

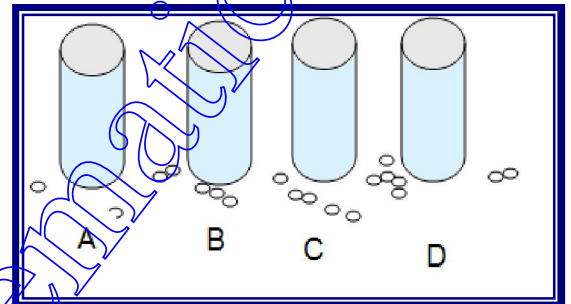
2. Pour half of the beans from cup A into cup B.

3. Pour half of the beans from cup B into cup C.

4. Pour half of the beans from cup A into cup C.

5. Pour all of the beans from cup A into cup D.

6. Pour half of the beans from cup C into cup A.



Which cup contains the most beans now?

(a) cup C

(b) cup B

(c) cup D

(d) All cups have equal

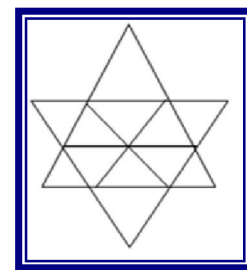
25. Tell the number of triangles in the following figures

(a) 20

(b) 25

(c) 18

(d) 15



Space for Rough Work

Section-B {for 7th and 8th class}

26. Three traffic lights at three different road crossing change after 48 seconds, 72 seconds and 100 seconds respectively, If they all change simultaneously at 8 a. m., at what time will they again change simultaneously?
- (a) 10 a.m. (b) 9 a.m.
(c) 11 a.m. (d) 10.30 a.m.
27. If Monday is coded as 123456 and Belt is coded as 0789, how would you encode the word TOMBAY?
- (a) 921056 (b) 460528
(c) 290165 (d) 258702
28. $(x\% \text{ of } y + y\% \text{ of } x) =$
- (a) $x\% \text{ of } y$ (b) $y\% \text{ of } x$
(c) $2\% \text{ of } xy$ (d) $x\% \text{ of } xy$

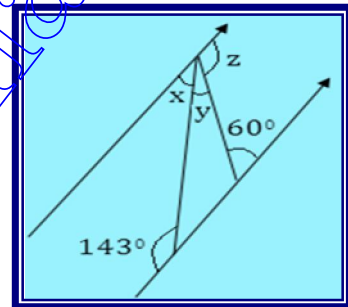
Space for Rough Work

29. In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 75 questions and secures 125 marks, the number of questions he attempted correctly, is

- (a) 35 (b) 40
 (c) 42 (d) 46

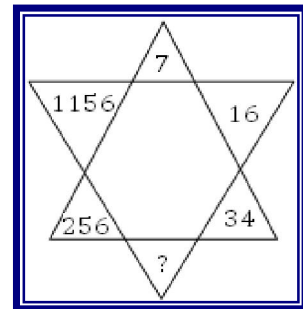
30. Calculate the size of angle y in the adjoining figures :

- (a) 27° (b) 43°
 (c) 23° (d) 60°



31. The missing number (?) is

- (a) 72 (b) 49
 (c) 68 (d) 66



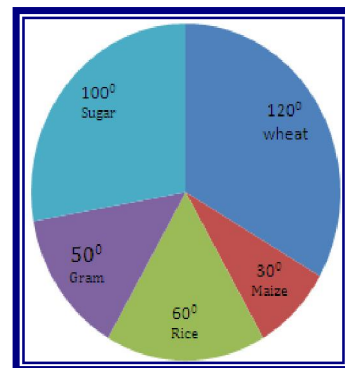
Space for Rough Work

32. P, Q, R and S are playing carom game. P, R and S, Q are partners. S is to the right of R who is facing west. Then Q is facing what direction?
- (a) North (b) south
(c) East (d) West
33. P, Q, R, S, T, U, V, W are sitting around a round table in the same order, for group discussion at equal distance. Their position is clockwise. If V sits in the north, then what will be the position of S?
- (a) East (b) South-east
(c) South (d) South-west
34. Ravi is not wearing white and Ajay is not wearing blue. Ravi and sohan wear different colour. Sachin alone wear red. What is sohan coloured, if all four them are wearing different colour.
- (a) red (b) blue
(c) white (d) can't say
35. How many times in a day, those of two hands of a clock coincide?
- (a) 11 (b) 12
(c) 22 (d) 24

Space for Rough Work

Section-C {for 8th only}

36. Number by which 19602 be divided, So that the quotient is a perfect square is
- (a) 2 (b) 9
(c) 3 (d) 4
37. If $x + \frac{1}{x} = 4$, then the value of $x^2 + \frac{1}{x^2}$ is
- (a) 12 (b) 16
(c) 14 (d) 20
38. The pie chart given below shows the annual agricultural production of an Indian state. If the total production of all the commodities is 81000 tonnes, then production of rice and sugar respectively is
- (a) 22500,13500
(b) 13500,22500
(c) 13500, 27000
(d) 27000, 22500
39. The sum of the powers of the prime factors in 108×192 is
- (a) 5 (b) 7
(c) 8 (d) 12



Space for Rough Work

40. The factors of $x^4 + y^4 + x^2y^2$ are

(a) $(x^2 + y^2)(x^2 + y^2 - xy)$

(b) $(x^2 + y^2)(x^2 - y^2)$

(c) $(x^2 + y^2 + xy)(x^2 + y^2 - xy)$

(d) Factorization is not possible

41. The number which is exactly divisible by 99 is

(a) 3572404

(b) 135792

(c) 913464

(d) 114345

42. In the given figure, RSTV is square inscribed in a circle with centre O and radius r.

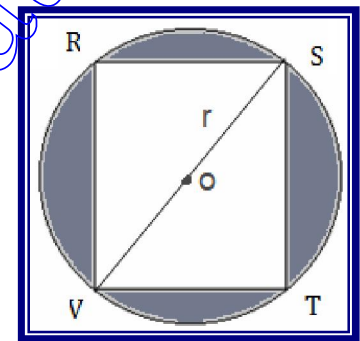
The total area of shaded region is _____.

(a) $r^2 (\pi - 2)$

(b) $2r^2(2 - \pi)$

(c) $\pi (r^2 - 2)$

(d) $8r^2 - 8r$



43. A is the father of C and D is the son of B. E is the brother of A. If C is the sister of D, how is B related to E?

(a) Daughter

(b) Brother-in-law

(c) Husband

(d) Sister-in-law

Space for Rough Work

44. The perimeter of a square is twice the perimeter of a circle and their areas are AS and AC respectively then
- (a) $AS > AC$ (b) $AC > AS$
(c) $AS = 2AC$ (d) $AS = AC$
45. Two poles, 15 m and 30m height, stand upright in a playground. If their feet be 36m apart. The distance between their tops is :
- (a) 21 m (b) 39 m
(c) 41 m (d) 36m

Space for Rough Work