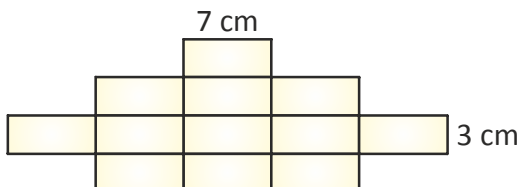


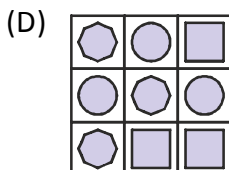
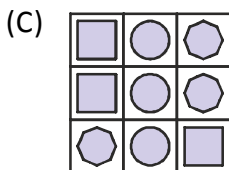
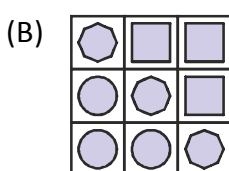
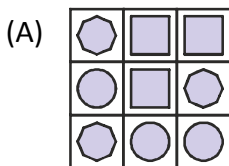
Class – 5

Mathematics

01. The figure is made up of small rectangles of sides 7 cm by 3 cm. Find its perimeter.



- (A) 21 cm (B) 36 cm (C) 72 cm (D) 94 cm
02. Pranav filled in a grid with some shapes. He made sure that his grid had a line of symmetry. Which of the following grids could be the one Pranav made ?

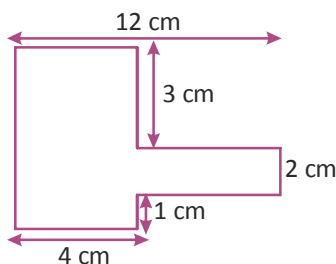


03. Mr. Dilip went to meet a client at Mumbai filmcity. To get there from his office, he needed to take a 45-min train ride. If he left the office at 14:20, what time would he reach Mumbai filmcity to meet his client ?
- (A) 3.25 p.m. (B) 3.05 p.m.
(C) 2.05 p.m. (D) 1.35 p.m.

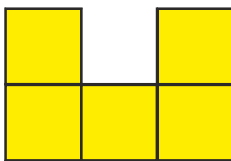
04. Rohan has $\frac{1}{3}$ as much money as Akhil, Jay has $\frac{2}{5}$ the amount Rohan and Akhil have altogether. If Jay has ₹ 2020, find the amount Akhil has.
- (A) ₹ 3875.5 (B) ₹ 3785.7
(C) ₹ 3787.5 (D) ₹ 3857.5
05. Add the number which is both a factor and multiple of 28 to a 2-digit number that is common factor of 36 and 24. The answer is _____.
- (A) 26 (B) 38 (C) 40 (D) 100
06. Express 10 months as a percentage of $2\frac{1}{2}$ years. (Answer correct to 2 decimal places).
- (A) 33.33% (B) 35.2%
(C) 24.6% (D) 30.3%
07. A piece of string was cut into 12 equal pieces. The length of 5 such pieces is $\frac{15}{8}$ m. Find the length of the original piece of string. Give your answer as a mixed number.
- (A) $4\frac{1}{2}$ m (B) $\frac{9}{2}$ m (C) $\frac{3}{8}$ m (D) $\frac{15}{8}$ m
08. What is 5 tens 3 ones 8 tenths 4 hundredths 5 thousandths rounded off to the nearest 1 decimal place ?
- (A) 538 (B) 53.84 (C) 53.8 (D) 5.3

- 09.** Out of the 360 people in a hall, 147 are men, 159 are women and the rest are children. If $\frac{2}{3}$ of the children are boys, express the number of girls as a percentage of the total number of people in the hall.
- (A) 5% (B) $7\frac{1}{2}\%$ (C) 10% (D) 15%
- 10.** I have some stamps to be arranged in an album. I can arrange 12 stamps on a page or 18 stamps on a page exactly. What is the greatest number of stamps I can have if I have fewer than 500 stamps ?
- (A) 424 (B) 446 (C) 468 (D) 484
- 11.** Which of the following groups of decimals contain all the decimals greater than 356.8 ?
- (A) 356.88, 356.64, 367.12, 356.93
(B) 357.29, 356.95, 356.79, 357.9
(C) 358.21, 356.84, 356.99, 357.01
(D) 356.81, 356.88, 357.1, 355.99
- 12.** How many degrees will the hour hand move in 10 hours ?
- (A) 270° (B) 300° (C) 180° (D) 360°
- 13.** Manish sold a book for ₹ 720. He made a profit of ₹ 64.50 in the deal. What was the cost price ?
- (A) ₹ 65.55 (B) ₹ 650
(C) ₹ 655.50 (D) ₹ 655
- 14.** Which option gives the same value as $99 \div 11$?
- (A) $99 \div 10 + 1$ (B) $3 \times (3 \times 2)$
(C) $(2 + 3) + 4$ (D) $11 - 2 \times 0$

15. What is the sum of the common factors of 12, 8 and 30 ?
(A) 1 (B) 2 (C) 3 (D) 4
16. The figure below is not drawn to scale. Find the area of the figure. (All lines meet at right angles.)



- (A) 8 cm (B) 24 cm^2 (C) 40 cm (D) 40 cm^2
17. The figure below is made up of 5 identical squares. The perimeter of the figure is 36 cm. What is the area of the figure ?

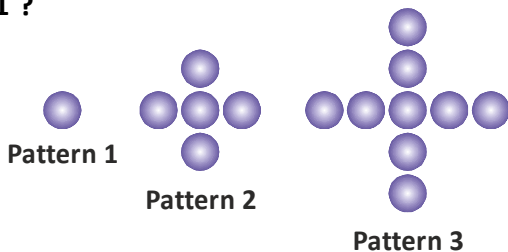


- (A) 45 sq. cm (B) 81 sq. cm
(C) 36 sq. cm (D) 96 sq. cm
18. 2 containers, X and Y, contained the same volume of water at first. When 960 ml of water was poured out of container X and 448 ml was poured out of container Y, there was 5 times as much water in container Y as in container X. Find the volume of water in container X at first.
- (A) 1200 ml (B) 1088 ml
(C) 1068 ml (D) 1008 ml

19. Add the biggest 4-digit number to 927435.
The value of the digit 7 in the result is _____.
- (A) 7×100 (B) 7×1000
(C) 1000 (D) 70000
20. What is the difference between the value of the digit in the thousandths place and the tenths place in the product of 5.764 and 12 ?
- (A) 0.092 (B) 0.0092 (C) 0.008 (D) 0.8
21. What is the mixed number representing the point P ?



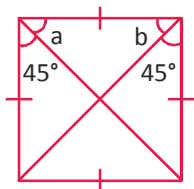
- (A) $3\frac{3}{8}$ (B) $3\frac{11}{16}$ (C) $3\frac{7}{8}$ (D) $4\frac{5}{8}$
22. Sahas wrote 4 different numbers which are all greater than 75. The average of the 4 numbers is 82. If 2 of the numbers are 83 and 90, which of the following could be the bigger of the remaining two numbers ?
- (A) 82 (B) 80 (C) 79 (D) 77
23. Jatin is making the pattern using some marbles from his marble collection. If he continues the pattern, how many marbles will he need to make Pattern 1001 ?



- (A) 4000 (B) 4001 (C) 4010 (D) 4100

24. How many $\frac{5}{12}$'s are there in the sum of $3\frac{5}{6}$, $4\frac{1}{4}$ and $1\frac{11}{12}$?
(A) 12 (B) 24 (C) 50 (D) 60
25. 3 workers can complete a painting job in 8 days. If the work is to be completed in $\left(\frac{1}{4}\right)^{\text{th}}$ of the time then how many more workers required ?
(A) 6 (B) 7 (C) 8 (D) 9
26. Mother bought 12 packs of vegetables. Each pack of vegetables weighs $1\frac{2}{3}$ kg. The cost of 1 kg of vegetables is ₹ 50. What is the total cost of all the vegetables ?
(A) ₹ 500 (B) ₹ 700
(C) ₹ 1000 (D) ₹ 800
27. A bakery sold 56 cakes and 28 puffs in the morning. It sold 14 cakes and 12 puffs in the afternoon. Find the ratio of the total number of cakes and puffs sold in the morning to the total number of cakes and puffs sold in the afternoon.
(A) 2 : 1 (B) 6 : 7 (C) 84 : 26 (D) 42 : 13
28. A cube of side 22 cm contained some seawater. John wanted to fill the cube to its brim. If John needed 10 l more of seawater, how much seawater was in the cube at first ? Express your answer in millilitres.
(A) 648 l (B) 6.48 ml
(C) 0.648 l (D) 648 ml

29. By how much is 1050 m + 3080 m is ____ than 5 km.
 (A) 1870 m less (B) 1130 m more
 (C) 870 m less (D) 30 m more
30. Ali coloured some parts of a square yellow. He left the remaining $\frac{11}{16}$ of the same square uncoloured. What fraction of the square was coloured yellow ?
 (A) $\frac{4}{5}$ (B) $\frac{5}{16}$ (C) $\frac{6}{16}$ (D) $\frac{4}{11}$
31. There are 171 passengers in a train carriage. $\frac{5}{9}$ of the passengers are men and the rest are women. How many women are there in the train carriage ?
 (A) 71 (B) 76 (C) 19 (D) 80
32. Moksha had twice as many sweets as Sakshi. Raksha had thrice as many sweets as Sakshi. If Moksha had 32 sweets, how many sweets did the 3 children have altogether ?
 (A) 16 (B) 64 (C) 96 (D) 76
33. The figure below is a square. What is the sum of $\angle a$ and $\angle b$?



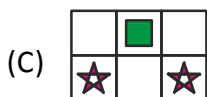
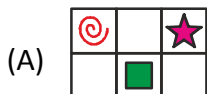
- (A) 90° (B) 45° (C) 75° (D) 35°

34. Instead of multiplying a certain number A, by 50, Dick multiplied it by 15. The answer was 1575 less than the correct answer. Find the correct value of $A \times 5 + 5$.
(A) 45 (B) 50 (C) 225 (D) 230
35. The ratio of the number of children in group A to the number of children in group B is 11 : 7. There are 132 children in group A. How many more children are there in group A than in group B ?
(A) 84 (B) 48 (C) 72 (D) 11

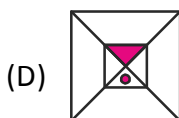
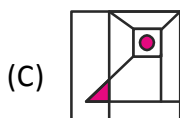
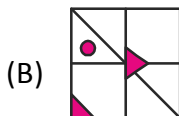
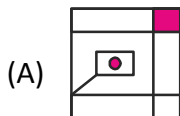
Class – 5

Reasoning

36. Which shape is similar to the given group of three ?



37. In which of the following options, is the figure marked HIDDEN ?



38. If the given image is reflected in a mirror, which colour will come to the bottom left side in the reflection.



(A) Red

(B) Pink

(C) Orange

(D) Green

39. What should come in place of the question mark so that the last two terms have similar relation as the first two terms ?

Feathers : Bird :: ? : ?

- (A) Pen : Pencil (B) Floor : Roof
(C) Up : Down (D) Wings : Aeroplane
40. Find the next three terms in the sequence.

A B C D C A B D B C A D A ? ? ?

- (A) BCD (B) DBC (C) CDC (D) BDC
41. Find the odd one out.
- (A) Table (B) Chair
(C) Computer (D) Cupboard
42. In a school of all students need to stand in rows. Every row will have 2 students more than previous one. First row has 2 students. If there are 30 students how many students are left out ?
- (A) 2 (B) 1 (C) 0 (D) 3
43. If ELCSUM is the code for MUSCLE, which word has the code LATIPAC ?
- (A) CAPITAL (B) CONFESS
(C) CONDUCE (D) CAPRICE

- 44. In what order will the following words will appear in the dictionary ?**

1 Nature

2 Nest

3 Necessary

4 Nausea

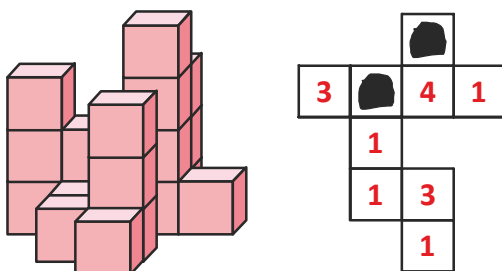
- (A) 1234 (B) 1324 (C) 1432 (D) 3124
- 45. Murugan is sixth from the left end and Prasanna is tenth from the right end in a row of boys. If there are 24 boys in the row, how many boys are there between Murugan and Prasanna ?**
- (A) 21 (B) 16 (C) 8 (D) 10

46. Jhanu shades in various shapes on square sheets of paper (see picture). How many of these shaded shapes have the same perimeter as the sheet of paper itself ?



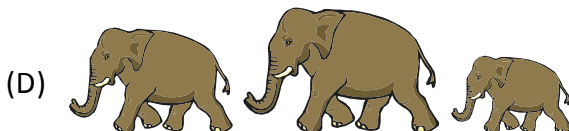
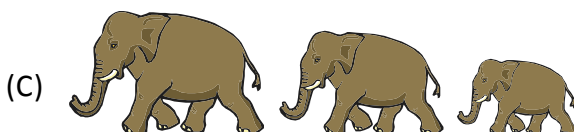
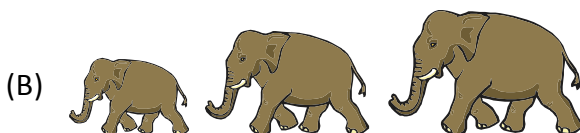
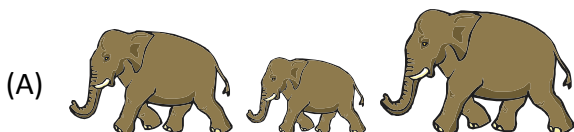
- (A) 2 (B) 3 (C) 4 (D) 6

47. A group of building blocks and a plan of these blocks are shown in the picture. Some ink has dripped onto the plan. What is the sum of the numbers covered by the ink ?

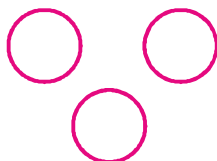


- (A) 3 (B) 4 (C) 5 (D) 6

48. 3 Elephants named A, B and C went for a walk. A was in front of B, and C was behind B. A weighs 500 kg more than B. B weighs 1000 kg less than C. Which of the following pictures shows A, B and C in the right order ?



49. Mark the option with the elements that most closely resembles the given Venn diagram.



- (A) Students, Boys, Teachers
(B) Spinach, Bananas, Fruits
(C) Lawyers, Women, Men
(D) None of these

50. At a workshop, there are 6 participants. Each of them shakes hand once with one another. How many handshakes are there ?

(A) 13 (B) 15 (C) 12 (D) 10