



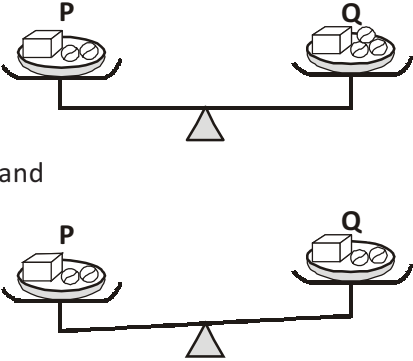
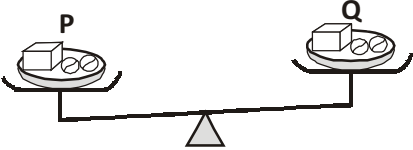
UNIFIED COUNCIL
An ISO 9001:2008 Certified Organisation





NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

Paper Code: UN 421
Solutions for Class : 2

Mathematics

1. (D) $3 \times 4 = 12$
 $2 \times 4 = 8$
 $\Rightarrow 12$ is 4 more than 8
 $\therefore 3 \times 4$ is 4 more than 2×4 .
2. (C) Age of Tina 3 years ago = 4 years
Present age of Tina = $4 + 3$
 $= 7$ years.
 \therefore Tina is **7 years** old now.
3. (B) Given digits are 0, 3 and 8.
The smallest 2-digit number formed by these number is **30**.
4. (B) 
and

 \therefore **Box Q** is lighter than Box P.
5. (D) $45 \div 5 = 9$
1 less than 10 = $10 - 1 = 9$
 $\therefore 45 \div 5 = 1$ less than 9
6. (D) As the hour hand goes completely around the face of a circular clock one time, the minute hand goes completely around the face of the clock **12** times.

7. (A) Number of shaded parts = 4
Total no. of parts = 8
Required fraction = $\frac{4}{8}$
8. (D) Ninety-one = 91
9 more than 83 = $83 + 9 = 92$
9 tens 3 ones = $(9 \times 10) + (3 \times 1)$
 $= 90 + 3 = 93$
4 less than 98 = $98 - 4 = 94$
 \therefore Among the given options 4 less than 94 is the greatest value.
9. (B) 3 sixes = 3×6
 $= 18$
 $12 + \underline{6} = 18$
 $\therefore 12 + \underline{6} = 3$ sixes.
10. (C) Number of pieces into which the ribbon was cut = 10
Fraction of ribbon given to sister = $\frac{1}{10}$
 \Rightarrow Preeti gave 1 piece out of 10 to her sister.
Remaining number of pieces = $10 - 1 = 9$
She shared 9 pieces with her two friends.
Number of pieces preeti and each of her two friends got = $9 \div 3$
 $= 3$
Fraction of ribbon preeti got = $\frac{3}{10}$
11. (C) The given solid has 5 faces.

12. (C) Number of apples = 20
 Number of friends who shared 20 apples = 3
- $$\begin{array}{r} 3 \overline{)20} \begin{array}{l} 6 \\ -18 \\ \hline 2 \end{array} \rightarrow \text{Remainder} \end{array}$$
- ∴ Each of the three children got 6 apples and **2 apples** remained.
13. (C) 0 tens 10 ones = $0 + (10 \times 1)$
 $= 10$
 1 ten 10 ones = $(1 \times 10) + (10 \times 1)$
 $= 10 + 10$
 $= 20$
 10 tens 0 ones = $(10 \times 10) + 0$
 $= 100$
 100 tens 0 ones = $(100 \times 10) + 0$
 $= 1000$
 ∴ **10 tens 0 ones** is equal to 1 hundred.
14. (B) Cost of set of colour pencils = ₹ 17 = ₹ 2 cheaper than file cost of file.
 Cost of file = ₹ 17 + ₹ 2
 $= ₹ 19$
 ∴ The cost of file is ₹ 19.
15. (C) Mass of Rice bag = 1 kg + 1 kg + 500 g
 $+ 500 \text{ g}$
 $= 2 \text{ kg} + 1 \text{ kg}$
 $= \mathbf{3 \text{ kg}}$
16. (A) Number of eggs in the basket = 50
 Number of eggs broken = 30
 Number of eggs left unbroken = $50 - 30$
 $= \mathbf{20}$
17. (C) The first three faces are repeating in the given pattern.
 Hence the next two faces are , 
18. (A) $708 - \boxed{?}49 = 559$
 $\Rightarrow 708 - 559 = \boxed{1}49$
 ∴ The missing digit is **1**.
19. (D) Number of squares in the given figure = 10
 To show the fraction $\frac{3}{10}$, **3 squares** must be shaded.

20. (C)
$$\begin{array}{r} \textcircled{4} \textcircled{5} \textcircled{6} \\ \underline{+ \textcircled{1} \textcircled{4} \textcircled{9}} \\ 6 \ 0 \ 5 \end{array} \quad \text{or} \quad \begin{array}{r} \textcircled{1} \textcircled{1} \\ \underline{\textcircled{1} \ 5 \ 6} \\ \textcircled{4} \ \textcircled{4} \ 9 \\ \underline{ \ 6 \ 0 \ 5} \end{array}$$

The digit that repeats twice in the box is **4**.

21. (A) Number of equal parts the dough was divided into = 8
 Number of parts used to make curry puffs = 5
 ∴ Fraction of dough used = $\frac{5}{8}$
22. (C) 1 ten 4 ones = **10 + 4**.
23. (B) Mass of the bunch of grapes = **300 g**
24. (C) Number of flowers in 1 vase = 7
 Number of flowers in 5 vases = $7 \times 5 = 35$
 ∴ There are **35 flowers** in 5 vases.
25. (B) $\bigcirc + \triangle = 7 \text{ kg}$
 $\square + \bigcirc = 6 \text{ kg}$
 Here, we can say that \square weighs 1 kg more than \triangle , in other words \square is **1 kg lighter than** \triangle .
- General Science**
26. (C) Climbers have weak stems. They need support to grow, to get sufficient sunlight and to make its food.
27. (D) Paper is made from bamboo.
28. (B) A hut is a kutchha house. It is made of straw and mud.
29. (D) Sugarcane, potato and ginger are stem parts of the plant.
30. (A) Grams are called pulses.
31. (B) Some animals skin is used to make shoes, belts, purses and jackets.
32. (C) Ice melts and get changes into water.
33. (C) Granite is hard and rough rock.
34. (C) The sun is a star.
35. (D) The type of clothes we wear depends on the season, the climate of the place and the occasion.
36. (C) In the afternoon the sun is above our head. The shadows formed are short.

37. (C) The given figure is of diamond.
38. (B) Pea and gram seeds are called pulses.
39. (B) First aid is the immediate help given to a person who is hurt, before the doctor comes.
40. (D) While riding a bicycle, we should always keep to the left of the road, give signals before taking turns and cross the road by using zebra crossing.
41. (D) People put wiremesh on their doors and windows to allow sunlight and air to come in and to stop the entry of mosquitoes and flies.
42. (C) Seed is a living thing that mice need to live.
43. (A) Boiling kills germs and by filtering dirt is removed from the water.
44. (D) Leather jackets, shoes, purse and belts are made from the skin of dead animals like crocodile, snake buffaloes and camel
45. (C) Herbs have soft stems.
46. (C) We get oil from coconut, groundnut, sunflower and mustard seeds.
47. (A) The earth takes $365\frac{1}{4}$ days to complete one revolution around the sun.
48. (A) If all the flowers are picked off from the flowering plant, the plant will not be able to produce fruits and seeds.
49. (D) The figure in option D is a mobile house.
50. (A) Telescope is used to know and learn about stars.