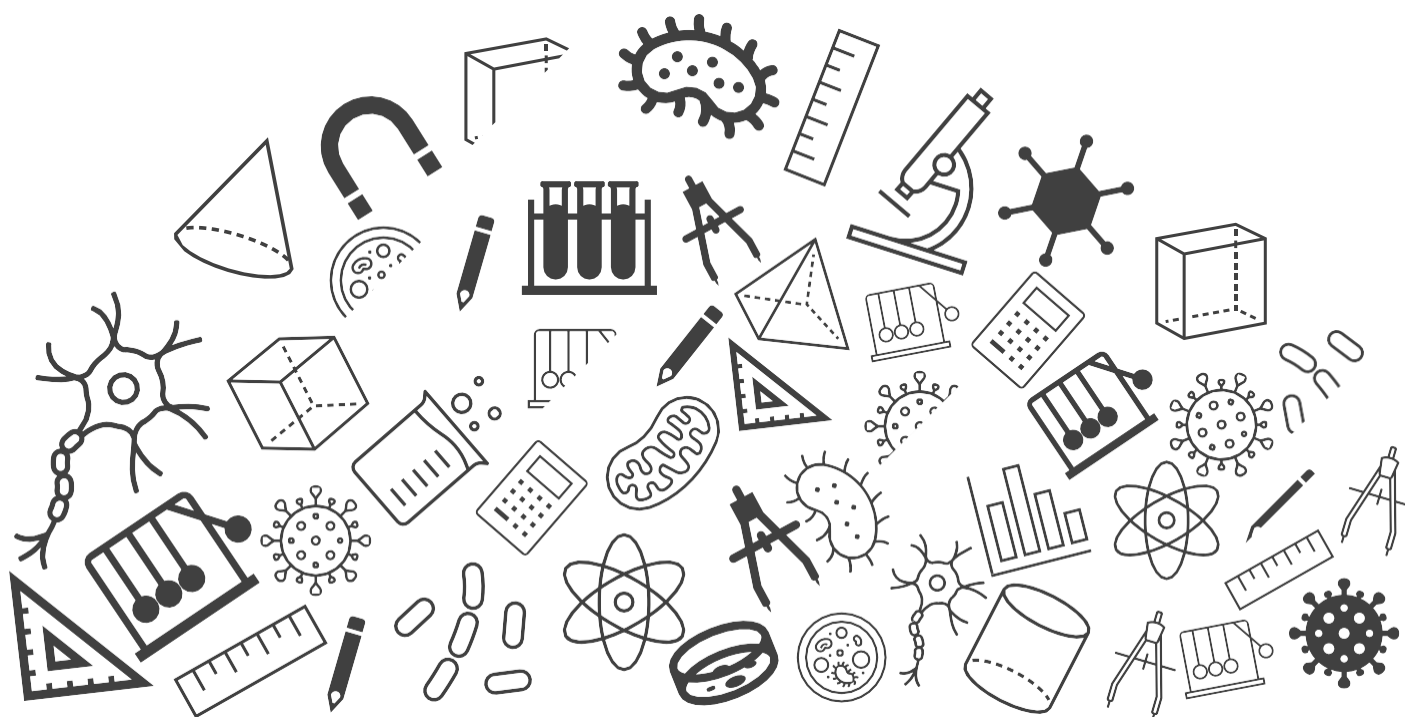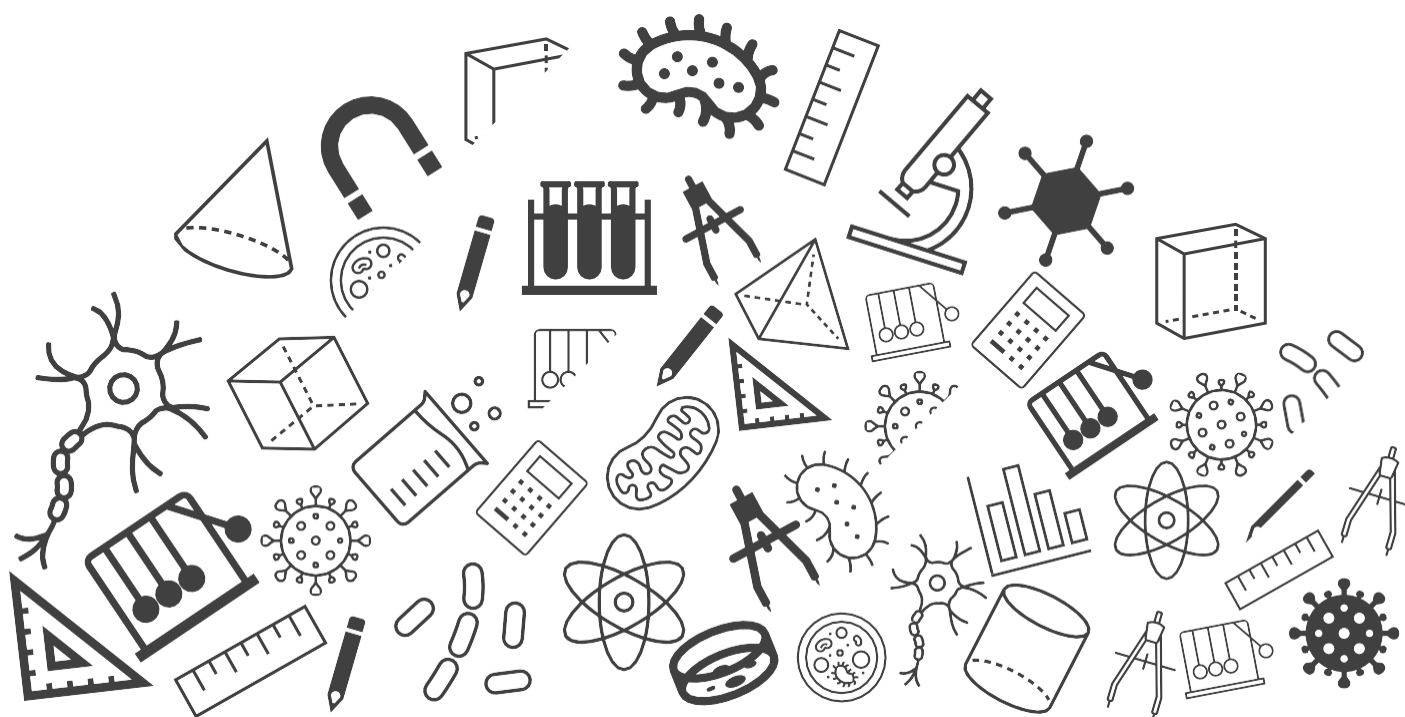# BYJU'S

Grade 06: Maths
Exam Important Questions

Knowing Our Numbers

Knowing Our Numbers

1. How many $8-$ digit numbers are there in all?

   [2 marks]

   Solution:
   Largest $8-$ digit number: 99999999
   [0.5 mark]
   Smallest $8-$ digit number: 10000000
   [0.5 mark]
   Number of $8-$ digit numbers: $99999999 - 10000000 + 1 = 90000000$
   [1 mark]

2. The town newspaper is published every day. One copy has 12 pages. Everyday $11,980$ copies are printed. How many total pages are printed everyday?

   [2 marks]

   Solution:
   Given, each newspaper copy has 12 pages. Hence, 11980 copies will have 12×11980 pages.
   [0.5 mark]

   $$
   \begin{array}{r}
   11980 \\
   \times 12 \\
   \hline
   23960 \\
   +11980 \\
   \hline
   143760 \\
   \hline
   \end{array}
   $$

   So, everyday 143760 pages are printed.
   [1.5 marks]

Knowing Our Numbers

3. Radius of the Earth is 6400 km and that of Mars is 4300000 m. Whose radius is bigger and by how much?

    [2 marks]

    Solution:
    Radius of Earth = 6400 km
    Radius of Mars = 4300000 m = 4300000 ÷ 1000 = 4300 km
    [∵ 1 km = 1000 m]
    6400 > 4300
    Hence, radius of Earth is bigger.
    Difference = 6400 km − 4300 km = 2100 km
    Hence, radius of Earth is bigger than radius of Mars by 2100 km.

4. To stitch a shirt, 2 m 15 cm cloth is needed. Out of 40 m cloth, how many shirts can be stitched and how much cloth will remain? (Hint: convert data in cm)

    [3 marks]

    Solution:
    2 m 15 cm = 2 × 100 + 15 = 215 cm
    [∵ 1 m = 100 cm]
    [0.5 mark]
    And 40 m = 40 × 100 = 4000 cm
    [0.5 mark]
    So, number of shirts that can be stitched = 4000 ÷ 215

$$
\begin{array}{r|l}
 & 18 \\
\hline
215 & 4000 \\
 & -\ 3870 \\
\hline
 & 130
\end{array}
$$

    [1.5 marks]

    So, 18 shirts can be stitched and 130 cm of cloth will be remain.
    [0.5 mark]

Knowing Our Numbers

5. Shekhar is a famous cricket player. He has so far scored 6980 runs in test matches.
   He wishes to complete 10000 runs. How many more runs does he need?
   [1 mark]

   Solution:
   Given,
   Shekhar scored 6980 runs.
   Shekhar's target score is 10000 runs
   Runs he needs $= 10000 - 6980 = 3020$
   Hence, he needs 3020 more runs to complete 10000 runs.
   [1 mark]

6. Insert commas suitably and write the name according to Indian system of numeration:
   98432701
   [2 marks]

   Solution:

   According to the Indian system of numeration 98432701 can be written as

   $9, 84, 32, 701$.
   [1 mark]

   98432701 can be written as nine crore eighty-four lakh thirty-two thousand seven

   hundred one.
   [1 mark]

7. A student multiplied 8035 by 87 instead of 78. By how much was his answer greater

   than or less than the correct answer?
   [3 marks]

   Solution:
   Step 1: Finding the correct and wrong answers
   Wrong answer $= 8,035 \times 87 = 6,99,045$
   Correct answer $= 8,035 \times 78 = 6,26,730$
   [1.5 mark]

   Step 2: Finding the Difference between obtained answers
   Wrong answer is greater than correct answer by $= 6,99,045 - 6,26,730 = 72,315$
   [1 mark]

   Thus, his answer was $72,315$ greater than the correct answer.
   [0.5 mark]

4

Knowing Our Numbers

8. A machine, on an average, manufactures $2,825$ screws a day. How many screws did it produce in the month of January 2006?

[2 marks]

Solution:
Number of screws manufactured in one day $= 2,825$
Number of days in the month of January $= 31$ days.
Hence, the number of screws manufactured in month of January 2006
$= 2,825 \times 31 = 87,575$
[1 mark]
$\therefore$ The machine produced $87,575$ screws in the month of January 2006.
[1 mark]