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MATHEMATICS
SAMPLE SHEET

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Dear Parents,

We are delighted to share with you this **Sample Question Sheet** specially designed for students of **Class 7.**

This sample sheet is intended to give you a fair preview of the depth, quality, and variety of practice material that we have created for your child. Please buy complete bundle for your child's strong foundation in Maths and English. The carefully chosen problems are challenging yet age-appropriate, designed to sharpen reasoning, strengthen concepts, and prepare students for competitive exams.

Please note:

- **This sample sheet does not include answers.**
- **This sample sheet does not include all topics.**
- The **full content**, which will be available to enrolled students, comes with **answers to all questions** and, in most cases, detailed solutions to guide effective learning.

We hope this glimpse convinces you of the **rigor, creativity, and care** that goes into each of our practice sheets under **Complete Bundle.**

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SAMPLE MATHEMATICS QUESTION SHEET – CLASS 7

Integers

1. The temperature in Leh is −12°C. It rises by 15°C. The new temperature is:

a) 27 b) -27 c) 3 d) -3

2. A diver is 60 m below sea level. He comes up by 25 m. His new position is:

a) -85 m b) -35 m c) -45 m d) +35 m

3. $9 \times (-3) + (-12) \div 4 =$ ____

4. $(144 \div (6 \times 2)) + (10 - 15)$

5. $((-6)^2 \div 9) - 2^3$

6. A mountain base camp is at +2,100 m. A climber ascends thrice that distance. What is his position?

7. A thermometer reads −3 degree C. It rises by 5 degree C, then falls by 12 degree C, then rises by 10 degree C. What is the final temperature?

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Rational Numbers

1. The additive inverse of -17/23 is:

a) -17/23 b) 17/-23 c) 17/23 d) 0

2. Fill in: -x/28 = -3/7, then x = ____

a) 9 b) 12 c) 6 d) 15

3. Compute: (-3/10) × (-20/9) + 1/5

4. (-15/8) × (-16/9) ÷ (5/6) + 7/24

5. ((11/5 × -15/22) + (8/9 ÷ 4/3)) × (3/7)

6. $((2/3 + 3/4) \times (4/5 - 1/10))^2 / (1/5)$

7. Three friends share 3/2 kg of sweets in the ratio 1/2 : 1/3 : 1/6. How much does each friend get?

8. A tank is filled to 5/6 of its capacity. After using 7/15 of the tank capacity, what fraction of the tank remains?

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SAMPLE MATHEMATICS QUESTION SHEET – CLASS 7

Exponents and Power:

1. The base in 7^5 is:

a) 7 b) 5 c) 35 d) None of these

2. Simplify: $7^6 \div 7^2 =$

3. 0.00056 in standard form is:

a) 5.6×10^{-4} b) 56×10^{-5} c) 5.6×10^{-3} d) 56×10^{-4}

4. Which is greater: 5^{20} or 2^{30}?

5. Simplify: $(2^4 \times 2^2) \div 2^3 =$ _____

6. The distance between Earth and Moon is 384,000,000 m. Express it in scientific notation.

7. The Earth's population is 7.8×10^9 and India's population is 1.4×10^9. Which is larger and by how much?

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SAMPLE MATHEMATICS QUESTION SHEET – CLASS 7

Algebra

1. $(5a - 3b) + (-2a + 6b) =$ _____.

2. $(7m + 2n) - (3m - 5n) =$ _____.

3. The degree of the polynomial $4x^2y^3 - 2xy + 7$ is:

(a) 2 (b) 3 (c) 5 (d) 6

4. What must be added to $x^2 - 2x$ to get $x^2 + 5x + 3$?

5. $7x^2 + 4xy - y^2$ and $-3x^2 + 6y^2 - 5xy$

6. From $[(x^2 + y^2) - (2xy - 3y^2)]$, subtract $[(x^2 - y^2) - (-2xy)]$

7. $(19/40)p^2q - (7/20)pq^2 + (11/80)p^2q + (9/40)pq^2$

8. A packet of rice costs ₹r, a packet of pulses costs ₹p. Write the expression for buying 3 packets of rice and 4 packets of pulses.

9. A sum of ₹p is borrowed and simple interest at 10% per year is added. Write the total after t years.

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SAMPLE MATHEMATICS QUESTION SHEET – CLASS 7

Linear Equations

1. Find p if $x^4 - 3x^3 - px - 5 = 23$ when $x = -2$.

2.Solve for x (fraction & complex): $(2x + 3 = x/2 + 11)$

3. Sumit has 80 coins of ₹2 and ₹5. The total value is ₹232. (Take x = number of ₹2 coins.)

4. A boy's present age is x. Three years later he will be twice his age 5 years ago. Find his present age.

5. The sum of two consecutive odd numbers is 72. Find the integers.

6.A box contains only ₹5 and ₹2 coins. The number of ₹5 coins is 8 more than the number of ₹2 coins. If the total value is ₹124, find the number of each type

7.The ratio of teachers to students is 1 : 30. If there are 18 teachers, how many students are there?

8.The perimeter of a triangle is 42 cm. Two sides are equal, and the third side is 6 cm less than one of the equal sides. Find all three sides.

9. Find (p) if $(p + x^3 - x = -35)$ when $(x = -3)$.

SAMPLE MATHEMATICS QUESTION SHEET - CLASS 7

Mensuration

1.A square tile has a side of 30 cm. How many such tiles will cover a rectangular floor 3 m × 2.4 m?

2.A ramp is triangular in cross-section with base 3 m and height 4 m. Find the slant length (hypotenuse), the area, and the perimeter of this triangular cross-section.

3.A floor in the shape of a parallelogram measures 6 m (base) by 4 m (height). If tiles measure 0.5 m by 0.5 m, how many tiles are required to cover the floor (no wastage)?

4.A circle has radius 50 cm. Find its area in cm^2 and convert it to m^2.

5.Fill the missing values in below table:

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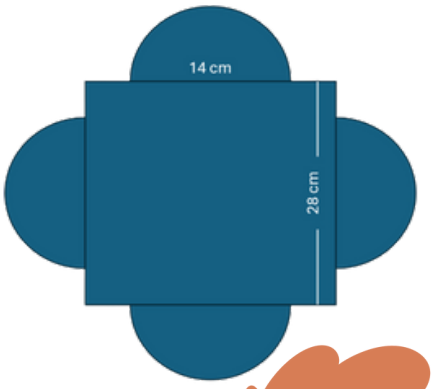
No.	Shape & Note	Base	Height	Area
(i)	Parallelogram	7.5 cm	___	93.75 cm² (find height)
(ii)	Triangle	___	6 cm	84 cm² (find base)
(iii)	Parallelogram	3.2 m	0.75 m	___ (m²)
(iv)	Triangle	14 cm	___	98 cm² (find height)

6. A square of side 28 cm has four semicircles attached outside, one on each side; each semicircle has diameter 14 cm (centred on each side). Find the total shaded area (square plus the four semicircles).



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Case Study: The School Garden (5 Qs)

A school has a rectangular garden 30 m long and 20 m wide. A 2 m wide path is built all around inside. Grass is planted in the central region, tiles laid on the path.

Cost of tiling = ₹40 per m^2, cost of grass = ₹25 per m^2.

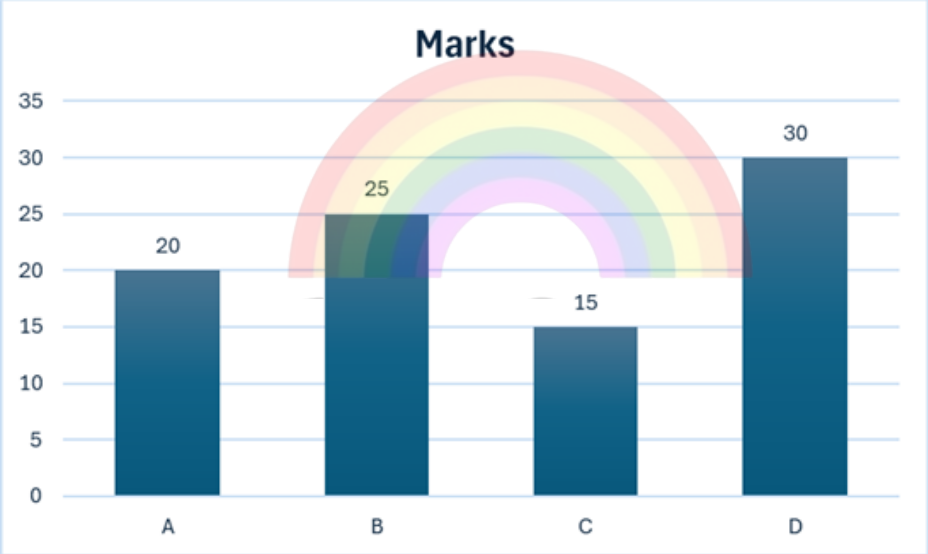
1. Find the area of the whole garden.
2. Find dimensions of grassy inner rectangle.
3. Find area of grassy inner rectangle.
4. Find cost of tiling the path.
5. Find cost of planting grass.

SAMPLE MATHEMATICS QUESTION SHEET - CLASS 7

Data Handling:

1. The shoe sizes of 10 children are: 4, 5, 4, 6, 5, 5, 7, 6, 4, 5. Make a frequency table.

2. The marks of 4 students are as shown in the Bar Graph below. Which student scored the least?



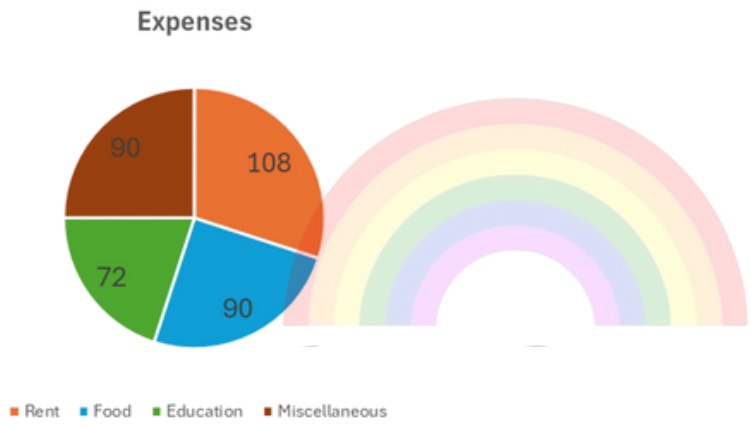
3. A pie chart is divided into four equal sectors. What fraction of the whole does each represent?

SAMPLE MATHEMATICS QUESTION SHEET - CLASS 7

4. A pie chart of expenses shows:

- Rent = 108°
- Food = 90°
- Education = 72°
- Miscellaneous = 90°

What percentage of expenses is spent on Rent?



5. The mean of 7 observations is 21. What is the total of all observations?

6. The weights of 5 children are 30 kg, 32 kg, 35 kg, 38 kg, and 40 kg. Find the mean weight.

7. The weights (in kg) of 6 children are 22, 24, 26, 28, 30, 32. Find the median.

8. A car travels at speeds (in km/h) of 40, 50, 60, 70, and 80 on five consecutive trips.

Find the mean speed.