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WHERE LEARNING
MEETS INSPIRATION

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 6.

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. 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.
- 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.

Warm Regards,
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Your Child's Learning Partner

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PLAYING WITH NUMBERS

1. $[\{(50-(2\times(12-(4+2))))\}]$
2. $[3\times\{4+(8-(6+2))\}+2^2]$
3. Find the smallest number greater than 500 that is divisible by 9.
4. Find the prime factorization of 405.
5. A shopkeeper has 121 pencils. He wants to bundle them equally. Can he divide them equally into groups of 11? What does this tell about 121.
6. A traffic light blinks every 20 seconds, another every 25 seconds. After how much time will they blink together again?

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NATURAL & WHOLE NUMBERS

1. Round 84,59,372 to the nearest lakh.
2. The sum of two consecutive natural numbers is 111. Find the numbers.
3. Find the greatest 4-digit number divisible by 12.
4. The sum of first 30 whole numbers is ___.
5. What is the difference between the greatest 5-digit number and the smallest 4-digit number?
6. Write the smallest 3-digit number which is divisible by 9.

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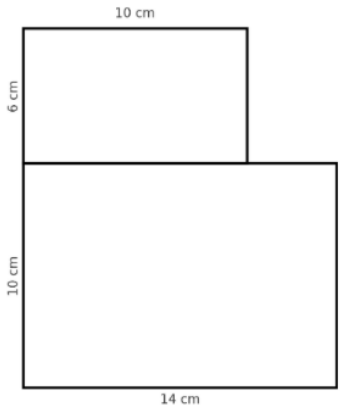
MENSURATION

1. Find area and perimeter of a square of side 15 cm.
2. A rectangle is 25 cm long and 15 cm wide. Find its area.
3. A triangle has base 20 cm and height 14 cm. Find its area.
4. A rectangular park 60 m × 40 m has a jogging track 2 m wide all around inside. Find area of track.
5. A rectangular hall is 18 m × 12 m. Find cost of tiling its floor at ₹50 per m².
6. Find the Perimeter of the following figure:



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RATIO AND PROPORTION

1. Simplify ratio 36 : 48.
2. Divide ₹400 between A and B in ratio 3 : 5.
3. A recipe needs flour and sugar in ratio 7 : 3. If 700 g flour is used, how much sugar is needed?
4. Find x if 12 : x = 3 : 5.
5. The monthly incomes of two persons are in ratio 4 : 5. If the smaller income is ₹20,000, find the larger.
6. A bag contains ₹1 and ₹2 coins in the ratio 7:9. If the total value is ₹175, find the number of coins of each type.

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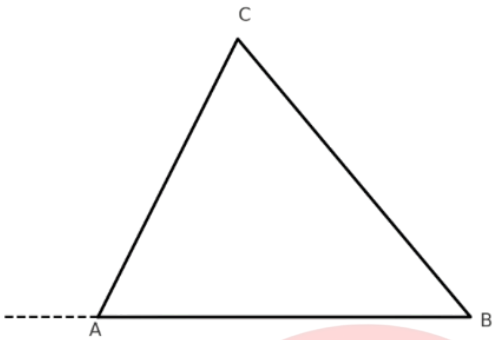
FRACTIONS, DECIMALS AND PERCENTAGE

1. 25% of 360 = ?
2. Convert 0.75 into a fraction in simplest form.
3. (4/9 ÷ 2/3) + (5/6 ÷ 10/12)
4. If 60% of students in a class of 50 are boys, how many girls are there?
5. A shopkeeper gives 10% discount on an article of price ₹500. Find selling price.
6. Add: 3.45 + 2.5 + 0.055.
7. 432.9876 − 123.4567 − 98.7654 + 67.8901
8. A field is 2/3 hectare. A farmer cultivates 3/5 of it with wheat and the rest with rice. What fraction is cultivated with rice?
9. If 33 1/3 % of a number is 99, find the number.

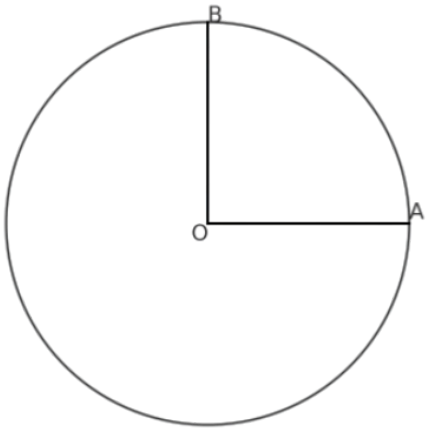
GEOMETRY

Q1. If the exterior angle at a vertex is 100° and one of the interior opposite angles is 35°, find the other.



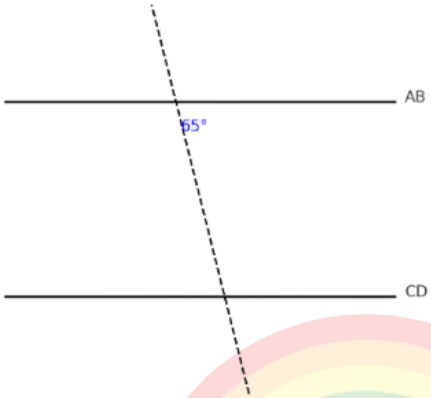
Q2. Circle

In the given circle with center O, OA and OB are radii. Find the measure of ∠AOB if it is a right angle. Also, name the type of triangle formed by points A, B, and O.



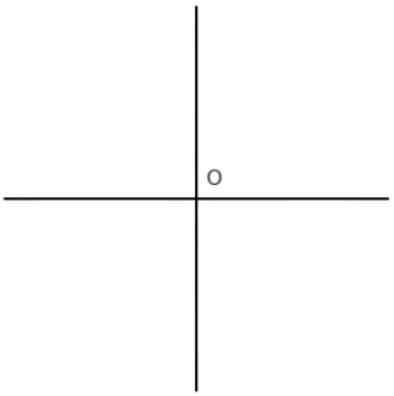
GEOMETRY

Q3. A line AB is parallel to line CD. A transversal cuts them, making an angle of 65° on one side. Find the alternate interior angle.



Q4. Angles at a Point

Four rays meet at point O as shown. If one of the angles is 90°, find the sum of all the angles at point O.



GEOMETRY

Q5. If one angle at the centre of a circle is 70°, what is the angle made by the other part of the circle at the centre?

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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.