

Tender Heart High School, Sec.-33B chd.

Class: VIII

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Subject: Mathematics

Teacher Deepu

Topic: Revision for "Half yearly Examination"

From Q-1 to Q-10 (Short questions)

Q1 What number should be added to $\frac{-2}{5}$ to get $\frac{61}{15}$?

Q2 Simplify: $x^6 y^4 z^{-2} \times x^{-3} y^{-5} z^{-1} \times x^2 z^4$

Q3 Find the square root of 9025 by long division method.

Q4 Find the value of $6\frac{2}{3}\%$ of 3m.

Q5 A man sold a table for ₹2250, at 5% loss. find the cost price of the table.

Q6 In what time will the simple interest on ₹7560 be ₹1102.50 at $6\frac{1}{4}\%$ p.a?

Q7 Find the product of $(4x^2 - 2x - 9)$ by $(x - 5)$

Q8 Expand by using Algebraic identities
 $(4x - \frac{2}{y})^2$

Q9 The ratio of four angles of a quadrilateral is 4:3:2:6, find the measure of each angle.

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Q10. Draw a circle of 5cm and also shade minor arc and major arc

Q11 to 21

Q11 Find the cost of $3\frac{2}{5}$ m of cloth at ₹63 $\frac{3}{4}$ per m.

Q12 Solve for x: $\frac{x^6 \times x^5}{x^3 \times x^7} = 1024$

Q13. Find the least number which must be added to 6203 to obtain a perfect square. Find the perfect square and its square root.

Q14 The price of an article is increased by 25%. By how much per cent must this new value be decreased to restore it to its former value.

Q15 A chair was sold for ₹2142 at a gain of 5%. At what price it should have been sold to gain 10%.

Q16 Find a single discount equivalent to two successive discounts of 40% and 5%.

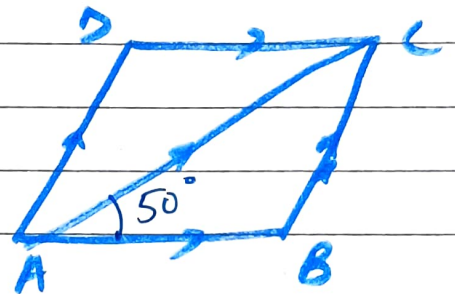
Q17 Calculate the amount and the compound interest on ₹128000 for 18 months at 10% p.a, compounded half yearly.

Teacher's Signature

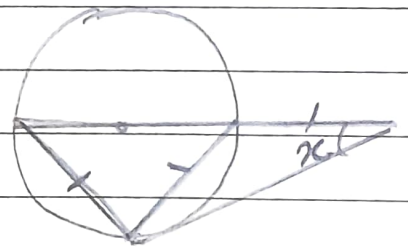
Q18 Divide $x^6 + 3x^2 + 10$ is divided by $(x^3 + 1)$.

Q19 If $x^2 + \frac{1}{x^2} = 102$, find the value of $(x - \frac{1}{x})$.

Q20 ABCD is a rhombus, $\angle BAC = 50^\circ$ find all the other angles of a quadrilateral

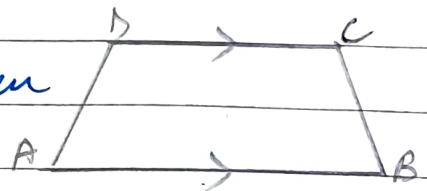


Q21 Find the value of x



Q-22 to 25

Q22 In a quad. ABCD, is being given that $AB \parallel DC$ $LA : LB = 2 : 3$ and $LB : LC = 4 : 5$



Q23 Find the amount and the compound interest on ₹ 10000 for 3 years at 10% p.a, compounded annually.

Q24 Draw the bar graph

Class	I	II	III	IV	V	VI	VII
No. of Students	2	3	14	10	6	5	8

Q25 Divide $6x^4 - 13x^2 + 22x - 24$ by the product of $2x - 3$ and $x^2 - 2x + 2$

Teacher's Signature

— x — x —