

Diwali and Chhath Pooja Vacation
Assignment.

class - VII

Subject - Maths

Answer these questions: →

(1) Find the reciprocal of
 $(\frac{2}{5})^3 \times (\frac{5}{4})^2$

(2) Find the value of x , so that
 $(\frac{15}{4})^3 \div (\frac{5}{4})^3 = 3^x$

(3) In $\triangle ABC$, $\angle A = 44^\circ$, and $AB = AC$,
find $\angle B$ and $\angle C$.

(4) The vertical angle of an isosceles
triangle is 100° , find the base angle.

(5) Find the length of the diagonal of a
rectangle whose sides are 15cm and 8cm.

(6) If 40% of 70 is x more than 50% of
80, then find x .

(7) At what rate of interest per annum
will a sum of ₹ 8,000 amount to
₹ 9,260 in $3\frac{1}{2}$ years?

(8) The S.P. of an article is three-fourth of the C.P. what is the loss Percent?

(9) Find $x - 48\%$ of $480 + 25\%$ of $250 - x = 200$

(10) Mohan purchased a watch for ₹ 300 and sold it at a loss of 20%. Find S.P. of the watch.

(11) The salary of a person was increased by 15%. If his salary now is ₹ 9935. What was his initial salary?

(12) Simple interest on a sum of money at the end of five years is $\frac{1}{5}$ of the sum itself. Find the rate percent per annum.

(13) At what time will a sum of money double itself at 15% per annum?

(14) Solve - If $x\%$ of y is $13x$, then find the value of y .

(15) What is 50% of a number whose 200% = 20?

(16) By what number should $(24)^{-1}$ be divided so that the quotient may be equal to $(4)^{-1}$?

(17) By what number should we multiply (2^{-5}) so that the product may be equal to (2^{-1}) ?

(18) If $\frac{p}{a} = \left(\frac{5}{6}\right)^{-2} \times \left(\frac{4}{3}\right)^0$, Find the value of $\left(\frac{p}{a}\right)^2$

(19) If $2^{2x-3} = (64)^4$. Find the value of x .

(20) Find reciprocal of $-\frac{2}{3} \times \frac{5}{7} + \frac{2}{9} \div \frac{1}{3} \times \frac{6}{7}$.

(21) Simplify $-\left(\frac{3}{7}\right)^{-2} \div \left(\frac{4}{7}\right)^{-2}$.

(22) Simplify $\left(-\frac{2}{3}\right)^3 \times \left(-\frac{3}{5}\right)^3$.

(23) A right angle triangle is isosceles. If the square of the hypotenuse is 50 m^2 . What is the length of each of the sides?

(24) If the sides of a triangle are 3m, 4m & 6m long, determine, whether the triangle is right angle triangle.

(25) 12% of 50 + 5% of 120 is equal to?

(26) Compare the decimals -
 50.007×2.5 .

(27) The product of two rational numbers is $-\frac{3}{4}$. If one of the number is $\frac{5}{2}$. Find the other.

(28) By using $x = \frac{3}{4}$ and $y = -\frac{5}{6}$, verify that $x \div y \neq y \div x$.

(29) Verify that $(x \times y)^{-1} = x^{-1} \times y^{-1}$ by using $x = -\frac{2}{3}$ and $y = -\frac{3}{4}$.

(30) The sum of two rational number is -5 . If one of the number is $\frac{2}{3}$. Find the number?

~* The End *~