

DELHI PUBLIC SCHOOL, JAMMU
REVISION SHEET FOR PT-III
SESSION (2017-18)

Class : VII

Sub: Maths

Topics: Simple Equations, Rational Numbers, Comparing Quantities, Congruence of Triangles.

Q1: In $\frac{a}{3} + 5 = 2$, the value of a is

- a) 9 b) -9 c) 1 d) 6

Q2: Which of the following numbers lies between 0 and 1 on a number line?

- a) $\frac{3}{4}$ b) $\frac{4}{3}$ c) $\frac{11}{6}$ d) $\frac{9}{5}$

Q3: The ratio 2 : 3 means in percent

- a) 20% b) 66.6% c) 33% d) 30%

Q4: In a class of 30 students, 40% are girls. How many boys are there?

- a) 12 b) 18 c) 13 d) 14

Q5: If $\triangle ABC \cong \triangle KLM$, write the parts that correspond to

- a) $\angle L$ b) AC

Q6: One of the angles of an Isosceles triangle is 70° . Find the other two angles which are equal.

Q7: The length of a rectangle is 3 times its width. If the perimeter is 84 cm, then find the length of the rectangle.

Q8: Find the solution of the given equations:

- a) $3(t - 3) = 4(2t + 1)$ b) $9x + 5 = 4(x - 2) + 8$
c) $\frac{7m}{5} = m - 4$

Q9: By subtracting 22 from 3 times a number, we obtain 68. Find the number.

Q10: Sum of 3 consecutive numbers is 24. Find the numbers. (Hint: Take the nos. as x, x+1 and x+2)

Q11: By what number should we multiply $\frac{-1}{6}$, so that the product is $\frac{-23}{9}$.

Q12: Subtract the sum of $\frac{-5}{7}$ and $\frac{15}{14}$ from $\frac{9}{28}$.

Q13: From a rope 20m long, pieces of equal sizes are cut, each measuring $\frac{5}{4}$ m. How many pieces are cut off? How much rope is left?

Q14: Simplify: a) $\left\{\frac{-11}{3}\right\} + \left\{\frac{-3}{4}\right\} + \left\{\frac{-11}{6}\right\} + \frac{3}{8}$

b) $\left\{\frac{-8}{7}\right\} + \left\{\frac{-4}{9}\right\} + \left\{\frac{-11}{7}\right\} + \frac{5}{6}$

Q15: Find $(x + y) \div (x - y)$ if i) $x = \frac{2}{3}$, $y = \frac{3}{2}$ ii) $x = \frac{1}{4}$, $y = \frac{3}{2}$

Q16: Find the distance whose $3\frac{1}{3}\%$ is 3 km.

Q17: The price of the book is increased by 12%. If its increased price is Rs. 145.60, find the original price.

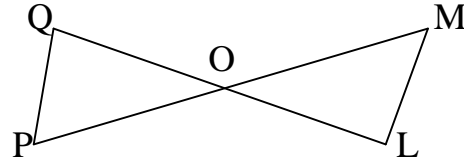
Q18: Harish deposited Rs.7500 in a finance company which pays 15% per annum. Find the amount Harish is expected to get after $5\frac{3}{4}$ years.

Q19: Are 18,72, 288 in a continued proportion.

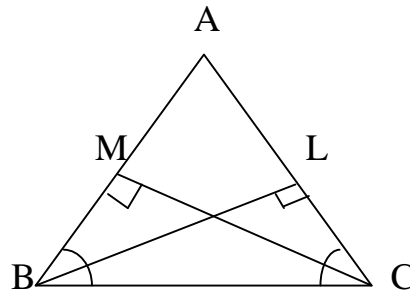
Q20: The ratio of the income to the expenditure of family is 8 : 5. Find the savings, if the income is Rs. 48,000.

Q21: Divide Rs. 1500 among A, B, C in the ratio 2 : 5 : 3.

Q22: In the given figure, lines PM and QL bisect at O and $OP = OM = 5$ cm.
Prove that $\triangle POQ \cong \triangle MOL$.



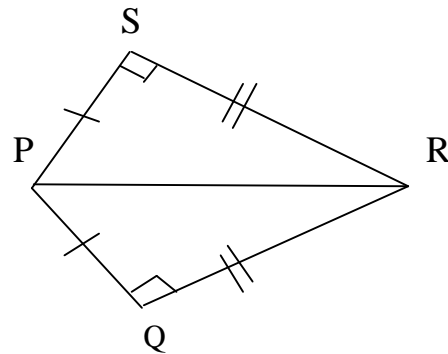
Q23: In $\triangle ABC$, $\angle B = \angle C$, BL and CM bisect $\angle B$ and $\angle C$ respectively. Prove that $BL = CM$.



Q24: In the given figure, $PS \perp SR$ and $PQ \perp QR$, also $SR = QR$. Show that

a) $\triangle PSR \cong \triangle PQR$

b) $PQ = PS$



Q25: Find the mean proportional between 18 and 288.

Q26: Find the value of p from the following proportions:

a) $3 : p :: 21 : 77$

b) $p : 9 :: 30 : 54$

Q27: Find the selling price of an article for which cost price is Rs. 750 and gain is 8%.