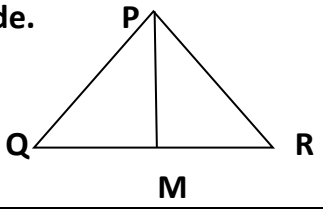
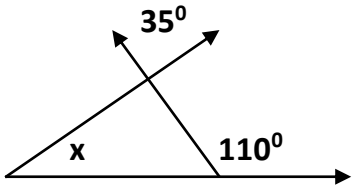
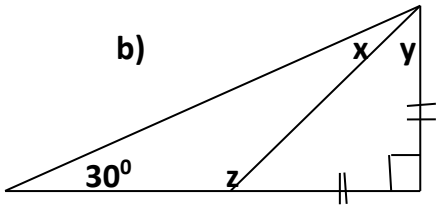
INDIAN SCHOOL MUSCAT–MIDDLE SECTION–DEPARTMENT OF MATHEMATICS – (2018 –19)

NAME OF THE STUDENT : **CLASS :7 SEC :** **DATE : 07.02.19**

SUB: MATHEMATICS **REVISION WORKSHEET- 01**

S.NO	ANSWER THE FOLLOWING QUESTIONS
1	Find the diameter of a circle whose circumference is 62.8cm. (Take π = 3.14)
2	The diameter of a semicircular protractor is 7cm. Find its perimeter.
3	Find the height of a triangle having an area of 175cm^2 and base is 0.25m.
4	Find the side of a parallelogram whose area is 120cm^2 and altitude is 1.2dm.
5	A wall 9.9m long and 6.4m high is covered with rectangular tiles of size 44cm by 20cm . Find the total cost of the tiles at the rate of ₹18.50 per tile.
6	The diameter of a cycle wheel is 56cm. Find the distance covered by the cycle in 200 rotations.
7	A wire in the shape of a square of side 11m is rebent into the shape of a circle. Find the area of the circle.
8	A 2m wide road surrounds a circular park whose circumference is 352m. Find the area of the road.
9	A rectangular park is 50m long 35m wide. a)A path of 3m width is constructed all around the park. b)A path of uniform width 5m runs round the inside of the park. Find the area of the path in both cases.
10	A field 70m long and 45m wide has two crossroads in the centre. Each road is 5m wide .Find the area of the remaining field.
11	Draw a line PQ and consider a point M at a distance of 5cm from it. Through M , draw a line RS parallel to line AB.
12	Construct ΔXYZ in which YZ = 5.4cm , $\angle Y = 90^0$ and $\angle X = 55^0$.
13	Suresh borrowed ₹5000 from his friend and returned ₹6500 to him after two years. Calculate the rate of interest.
14	Find the amount to be paid at the end of 4years on a sum of ₹2000 at 10%.
15	A car dealer bought a second – hand car for ₹140000 . He spent ₹10000 on its repairs and then sold it for ₹170000. Find his profit or loss percent.
16	A machine is sold for ₹10500 at a loss of 10% . What is the cost price?
17	The length of a rope is reduced from 150m to 131.25m. Find the decrease percent.
18	In an examination , 70% of the students achieved grade A , 10% were placed in grade B and 70 Students got grade C. Find the number of students placed in grade A and B.
19	Find the ratio of 2kg 5g to 0.5kg
20	Find the number whose 7% is 42.
21	Express a) $\frac{18}{5}$ and b) 0.9 as percentage
22	ΔPQR is an isosceles triangle with PQ = PR and PM is one of its altitude. a) Is ΔPMQ ≅ ΔPMR ? b) Is $\angle Q = \angle R$? Give reasons for your answer 

23	**Write the additional information needed to prove** **a) ΔPQR ≅ ΔABC by RHS congruence rule, given that PQ = AB, /Q = /B =90^0** **b) ΔPQR ≅ ΔABC by ASA congruence rule , given that /Q = /B and QR = BC** **c) ΔPQR ≅ ΔABC by SAS congruence rule , given that PQ = AB and PR = AC**
24	**The lengths of the diagonals of a rhombus are 10cm and 24cm.Find the perimeter of the rhombus.**
25	**In a right angled triangle DEF , /E = 90^0 , DE = 15cm , DF = 17cm ,find EF.**
26	**Find the values x,y,z .Give reasons.** **a)**  **b)** 
27	**The lengths of two sides of a triangle are 13cm and 19cm. Between what measures should the third side fall?**
28	**Is it possible to draw a triangle with the sides 7.4cm , 5.2cm and 3.9cm ?**
29	**The exterior angle of a triangle is 130^0 ,its interior opposite angles are equal in measure. Find the measures of all interior angles of the triangle.**
30	**Given below is the number of girls and boys in class VII of a school.** **Draw a double bar graph to represent the above data and answer the following questions.** **a)In which section(s) is the difference in the number of boys and girls (i)minimum (ii) maximum** **b)Find the ratio of no. of boys to no. of girls in VII D.**
31	**Find the range, mean , median and mode of the following data** **11, 20,11,13,22,10,11,14,23,10**
32	**The mean rainfall for a week in a city is 5.5mm. Find the total rainfall in the city during that week.**
33	**a) Divide 0.00951 by 0.317 b) multiply 3.14 by 0.4**
34	**a)solve 50 – 6 (x +1) = (-50)**
35	**Simplify** $\left(\frac{1}{2}-\frac{3}{4}\right)\div\left[\frac{-3}{10}\times\frac{5}{8}\right]$
36	**a)Represent** $\frac{5}{-3}$ **on a number line b)Find four rational numbers between** $\frac{-4}{5}$ **and** $\frac{-2}{3}$ **c)Find the multiplicative and additive inverse of** $\left(\frac{3}{8}-\frac{3}{4}\right)$**.**

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CLASS: 07	**PORTION FOR THE FINAL EXAMINATION**		**TOTAL MARKS - 80**
S.NO	**TOPIC**		
1	**TRIANGLE & ITS PROPERTIES**	**6**	**DATA HANDLING**
2	**CONGRUENCE OF TRIANGLES**	**7**	**FRACTIONS & DECIMALS**
3	**PRACTICAL GEOMETRY**	**8**	**SIMPLE EQUATIONS**
4	**COMPARING QUANTITIES**	**9**	**RATIONAL NUMBERS**
5	**PERIMETER & AREA**		