DELHI PUBLIC SCHOOL, JAMMU
REVISION SHEET FOR CYCLE TEST-II
SESSION -2019-20

CLASS:- VII

Subject: Maths

General Instructions:

i) The Revision Sheet consists of four sections – A, B, C and D.
ii) All questions are compulsory.
iii) Section A contains 12 questions carrying 1 mark each.
iv) Section B contains 4 questions carrying 2 marks each.
v) Section C contains 6 questions carrying 3 marks each.
vi) Section D contains 3 questions carrying 4 marks each.
vii) Internal choice is given in few questions. Attempt any one out of the given choices.

Syllabus:

Lesson - 7 Congruence of Triangles
Lesson -8 Comparing Quantities
Lesson- 10 Practical Geometry

SECTION- A

Multiple Choice Questions. Choose any one correct answer from the given choices.

Q1 When two angles are congruent, we mean
a) They are supplementary
b) they intersect each other
b) They are equal in length
d) none of these

Q2 Triangles can't be proved congruent by
a) SAS b) SSS c) ASA d) AAA

Q3 0.65 is same as
a) $\frac{13}{20}$ b) $\frac{130}{20}$ c) $\frac{13}{10}$ d) none of these

Q4 The ratio of 200gm to 3kg is
a) 10 : 1 b) 100 : 1 c) 1 : 10 d) none of these

Q5 The instrument used to measure an angle is
a) Ruler b) protactor c) divider d) compasses

Q6 Which of the following angle can be constructed using compasses
a) 105^0 b) 40^0 c) 50^0 d) 20^0

Fill in the blanks to make the statement true:

Q7 The method of _____examines the congruence of triangle.

Q8 Percent form of 0.35 is _____

Q9 A triangle is not possible to construct if we are given with its _____ only.

Very Short Answer Type Questions:

Q10 If C.P of a toy is ₹ 25 and S.P is ₹ 23.5, find gain or loss in the whole transaction.

OR

8% of children of a class of 25 like playing tennis .How many children like playing tennis.

Q11 Find 40% of ₹ 250

Q12 State the three pairs of equal parts in congruent triangle ABC and $\triangle$DEF.

SECTION –B

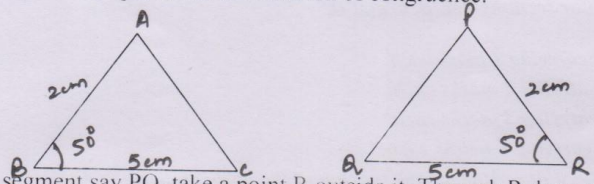
Q13 Find the whole quantity if 75 % of it is 15mg.

OR

Rahul bought a car for ₹300000 ,the next year price went upto ₹ 320000.What was the percentage of price increase.

Q14 Six flower pots costs ₹ 90.What would be the cost of 10 such pots.

Q15 Show that $\triangle ABC \cong \triangle PQR$. Write the criterion of congruence.



Q16Draw a line segment say PQ, take a point R outside it. Through R draw a line parallel to PQ using ruler and compasses.

SECTION – C

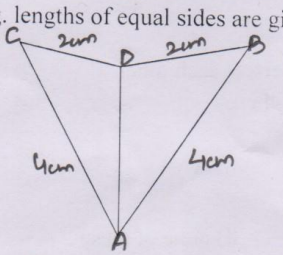
Q17 At what rate percent per annum ₹2500 bring ₹375 as interest for 3 years?

Q18 A shopkeeper sold a T.V for ₹ 250 with a profit of 5% . What was its cost price.

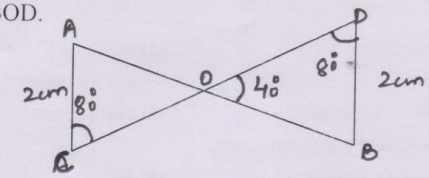
OR

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

Q19 In the given fig. lengths of equal sides are given .Is $\triangle ABD \cong \triangle ACD$.Give reasons in support of your answer



Q20 Prove that $\triangle AOC \cong \triangle BOD$.



Q21 Construct a $\triangle ABC$ if AB = 7cm, m$\angle$BAC= 40^0 and m $\angle$ABC = 60^0.

Q22 Construct a $\triangle PQR$ in which PQ = 4.5cm , QR = 5cm and RP = 7cm.

SECTION D

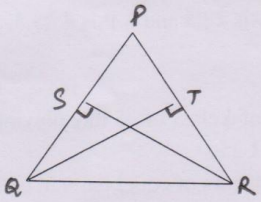
Q23 Find the amount to be paid at the end of 1 year 8 months when the principal is ₹18000 and the rate of interest is 12% per annum.

Q24 In the given fig, QT , RS are the altitudes of $\triangle PQR$.

i) State the three pair of equal parts in $\triangle RQT$ and $\triangle QRS$

ii) Is $\triangle RQT \cong \triangle QRS$ (Why or why not)

iii) Is $\angle TRQ = \angle SQR$ (Why or why not)



Q25 Draw a ABC such that AB = 4.8cm m$\angle$CAB = 75° and m $\angle$ BCA = 45°. Also write the steps of construction.