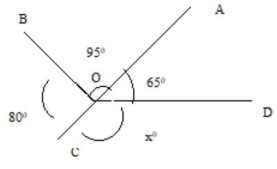
THE ASIAN SCHOOL
DEHRADUN
(SESSION 2022-2023)
Subject Mathematics
Worksheet class 7
Section A

1. Solve 2x+4=6
2. Simplify(4x+5)/6=2
3. Write the prime factorization of 60
4. Find the perimeter of a rectangle with length 12 and width 9
5. Reduce the fraction 15/25 to lowest terms
6. Find the sum of all the even numbers between 30 and 40
7. Write the next three numbers in the pattern: 7, 12, 17, 22, ...

Section B

Q.1 (6 added to -6 gives:
Q.2 Absolute value of -15 is:
Q.3 Write numbers which is to the right of -3 on number line?
Q.4The integer succeeding -9 is:
Q.5 The pair of integers whose sum is -5:
Q.6
Convert 148⁄1000 to decimal form.
Q.7 Compare 7.84 and 7.9
Q.8 Add 4.80, 12.043, 246.94
Q.9 Subtract 0.474 from 5.
Q.10 Multiply 12.3 and 3.4
Q.11 a)Two _____ are said to form linear pair of the angels if their non common arms are two opposite rays.
b) if a ray stands on a line then the sum of the adjacent angles so formed is _____.
c) The sum of all angles around a point is _____.
d) An angle which is equal to its complement is _____.
e) Two angles are called a pair of _____ if their arms form two pairs of opposite rays.

In the given below figure rays
OA,OB,OC and OD intersect at a point.
Find the value of x



Q.12

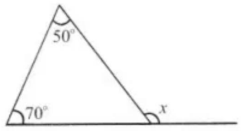
4. **Find the value of x in the adjoining figure.**

(a) 50°

(b) 70°

(c) 120°

(d) 180°



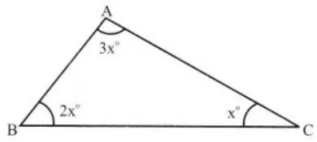
Q.13

Q.14

. Δ ABC is right-angled at C. If AC = 5 cm and BC = 12 cm find the length of AB.

Q.15 The hypotenuse of a right triangle is 17 cm long. If one of the remaining two sides is 8 cm in length, then the length of the other side is

1.



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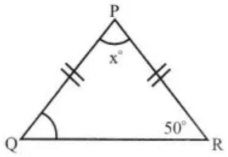

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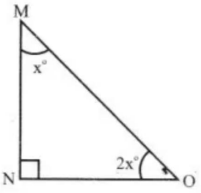
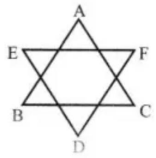


Q.16 Find angle x

Q.17 The acute angles of right triangle are in the ratio 2 : 1. Find the measure of each of these angles.

Q.18 In figure find the value of ∠A + ∠B + ∠C + ∠D + ∠E + ∠F



Q.19 Two parallel lines l and m are intersected by a transversal t. If the interior angles on same side of transversal are $(2x-8)^o$ and $(3x-7)^o$ Find the measure of these angles.

Q.20Find the value of p, if p × (-9) =135

Q.21. Evaluate :

(-1) × (-2) × (-3) × (-4) × (-5)

Q.22 With the help of number line find how much greater is the number 3 then -3

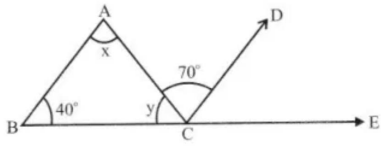
Q.23 An elevator descends into a mine shaft at the rate of 7m/min. If the descent starts from 5m above the ground level, how long will it take to reach -205 m?

Q.24 The sum of two integers is -1500. One of the number is 599. Find the other number.

Q.25 One of the angles of a triangle is 100* and the other two angles are equal. Find the measure of each of these equal angles.

Q.26 Find x and y

1. Here CD || AB



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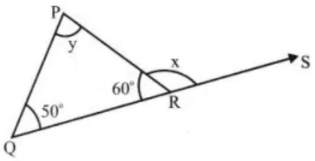

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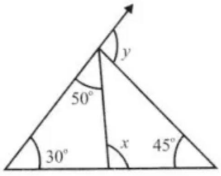
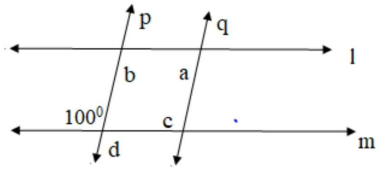
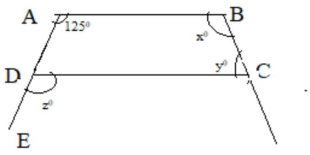


Q.27 In the given fig. l is parallel to m and p ll q. Find the measure of each of the angles a,b,c,d.



Q.28 In the given figure below. AB II CD and AD is produced to E so that $\angle BAE = 125^o$. if $\angle ABC = x^o$, $\angle BCD = y^o$ and $\angle CDE = z^o$ and $\angle ADC = x^o$ Find the values of x,y and z



Q.29 Solve

-2.39+5.89-2.56

Q.30 Negative of (-2÷4)