

VILLA THERESA HIGH SCHOOL, MUMBAI

Std. 7
03/03/2021

Final Exam–March 2021
Subject: Mathematics

Time: 1 hour
Marks: 40

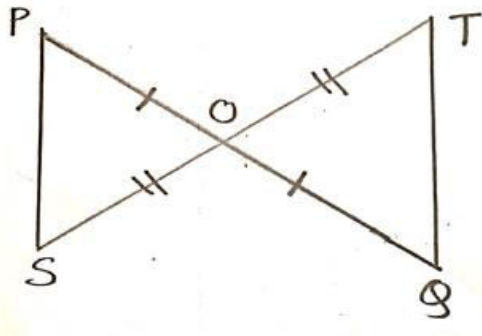
Q1. Do as directed

[10]

1. If $\triangle XEY \cong \triangle DFO$, write its corresponding congruent angles and sides.
2. Find the area of a triangle with base = 70cm and height = 25cm.
3. Simplify: $(\frac{5}{6})^{-2}$
4. Solve: $3p - 88 = 35$
5. Simplify: $(4x^2)^2(xy)^2$

Q2A. Prove that, $\triangle POS \cong \triangle QOT$

[3]



Q2B. Find the perimeter of the rectangle whose length is 60cm and one diagonal is 61cm. **[3]**

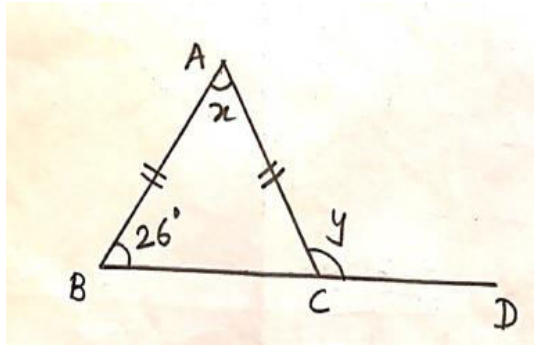
Q2C. Neerav's father is 11 times as old as Neerav. 12 years from now, he will be 3 times as old as Neerav. How old are they now? **[4]**

Q3A. Solve: $\frac{2(2x-1)}{9} - \frac{x-1}{2} = 0$ **[3]**

Q3B. The perimeter of a rhombus is 100cm and one diagonal is 48cm. Find the length of the other diagonal. **[3]**

Q3C. Two crossroads, each of width 3m run at right angles through the centre of a rectangular park of length = 80m and breadth= 70m and parallel to its sides. Find the area of the roads. **[4]**

Q4A. Find the unknown angles: **[3]**



Q4B. The base and corresponding height of a parallelogram are 35 cm and 42 cm respectively. If the other altitude is 30 cm, find the length of the other pair of parallel sides. **[3]**

Q4C. Construct $\angle ACB=75^\circ$ using ruler and compass. **[4]**
