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GREENLAWNS SCHOOL WORLI

Terminal Examination 2016

MATHS

Std : VI

Date: 30/9/16

Marks : (80)

Time: 1 ½ hr

Q1a 14865710, 20507106, 30008215, 2786789 arrange in ascending order. (2)

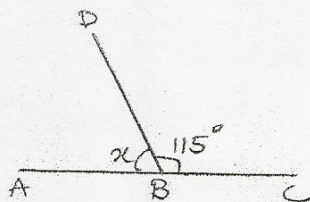
b. Simplify: $[2 \times 16 + 36 + (-3)] \div 13$ (2)

c. Solve: $(1\frac{7}{8} \div 1\frac{1}{2})$ of $(8\frac{1}{3} \div 1\frac{1}{2})$ (3)

d. Simplify: $56.680 - 436.25 + 621.74 - 32.29$ (3)

Q2a. Divide Rs 2700 between X and Y in the ratio 7: 8 (3)

b. Find the value of x in the figure given below: (3)



c. Add: $x - 2y - 3z$, $3y - 2x - 5z$ and $2x + 4y + 5z$ (2)

d. If $x=2$, $p=6$, $q=4$. evaluate $3p-2(x+q)$ (2)

Q3a. A man earns Rs 1500 per week and saves Rs 500 per week. Find the ratio of

- i. His saving to income
- ii. His income to expenditure
- iii. His expenditure to saving (3)

b. The measure of two complementary angles are $(2x-7)^\circ$ and $(x+4)^\circ$. Find the value of x. (3)

c. Construct $\angle ABC = 45^\circ$ using compass and ruler. (4)

Q4a. Simplify: $9 + \{20 - 3 \text{ of } 5 + (20 + 40 - 25 \div 5)\}$ (3)

b. Solve: $1\frac{1}{3} \div \frac{3}{7}$ of $2\frac{5}{8} + 1\frac{1}{9}$ (3)

c. In a school, $\frac{5}{8}$ of the students are boys and the number of girls are 990. Find the number of boys. (4)

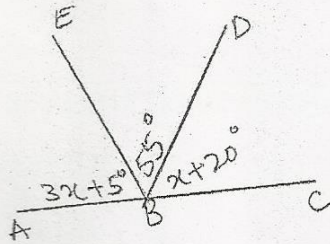
Q5a. Divide Rs 1690 among A, B, and C in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ (4)

b. If $x=4$, $y=3$, $z=3$, find the value of $\frac{x^2+y^2-z^2}{xy+yz-zx}$ (3)

c. Construct $\angle PQR = 135^\circ$ using compass and ruler. (3)

Q6a. Subtract the sum of $5a+3b-2c$, $3a-2b+2c$ and $-4a+2b-3c$ from the sum of $3a+2b-2c$ and $4a-b-c$ (4)

b. In the figure given below, find the value of x and the angles (3)



c. If $x=4$, $y=3$, $z=-2$ find the value of $\frac{2x^2+3y^2+z^2}{2xy+yz-zx}$ (3)

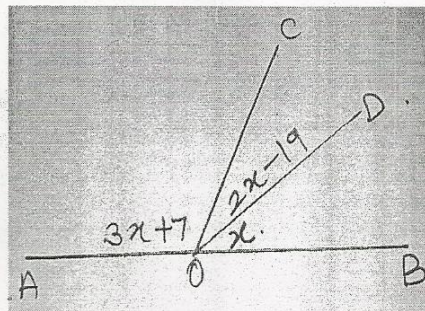
Q7a. Three parcels weigh $5\frac{2}{7}$ kg, 4 kg and $5\frac{4}{5}$ kg respectively. How much is the total weight short of 20kg. (3)

b. Find the value of $x^3 - 2y^2 + 2z^2 - xy + yz - zx$ when $x=1$, $y=1$, $z=2$ (3)

c. The ratio of tin, zinc and copper in an alloy is 4:2:1. How many grams do each weigh in 3010 gm of the alloy? (4)

Q8a. Solve: $\left(\frac{2}{3} + \frac{4}{9}\right)$ of $\frac{3}{5} \div 1\frac{2}{3} \times 1\frac{1}{4} - \frac{1}{3}$ (4)

b. In the adjoining figure AOB is a straight line. Find the value of x , hence find $\angle AOC$, $\angle COD$, and $\angle BOD$ (4)



c. If $a=4$, $b=5$, find the value of $6a^2-2ab$ (2)
