

GREENLAWNS SCHOOL WORLI  
Final Examination - 2017  
MATHEMATICS

Std: VI  
Date:

Marks: (80)  
Time: 1 ½ hr

---

QUESTION 1

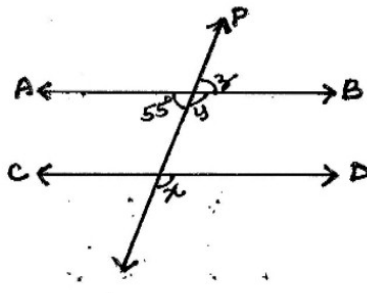
- a. In a class of 50 students 40% are girls. Find the number of girls and the boys in the class. (3)
- b. By selling an article for ₹800 a shopkeeper suffers a loss of 20%. For how much had he bought it? (3)
- c. The length and the breadth of a plot are 20m and 14m respectively. Find the cost of levelling it at ₹30 per square meter, find the cost of fencing it at ₹120 per meter. (4)

QUESTION 2

- a. Multiply:  $5x - 6y - 7z$  and  $2x + 3y$  (3)
- b. The angles of a triangles are in a ratio 1:2:6 find the angles. (3)
- c. Seema spends ₹1200 in buying three articles pen, writing pad, and pen drive. She spends ₹350 on pen, ₹300 on writing pad, and ₹550 on pen drive. Represent the given information through a pie graph. (4)

QUESTION 3

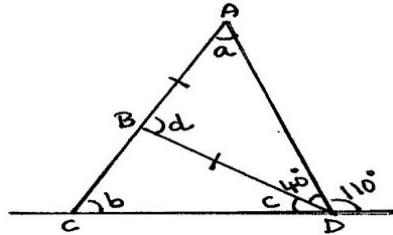
- a.  $AB \parallel CD$  and P is the transversal find the marked angles (3)



- b. Three times a number decreased by 2 is 7. Find the number. (3)
- c. Find the product of  $6x(2x - 4y) + 8xy$  (2)
- d. Find the area of the circle whose radius is 7cm. (2)

QUESTION 4

- a. The perimeter of a rectangle is 30cm and its length is 8cm. Find its breadth and the area. (3)
- b. A mobile is marked at ₹6000 and is available at a discount of 12%. Find the sale price of it. (3)
- c. In the adjoining figure, find the marked angles. (4)



QUESTION 5

- a. Out of ₹6000, two fifth were kept in a bank. Of remaining money, 40% is spent on food and 15% on rent. How much money is spent of the food? (3)
- b. The following table shows the maximum temperature of a city on each day of a week. Represent the data by a line graph. (3)

Days	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Max temp	35°	40°	30°	35°	40°	30°	30°

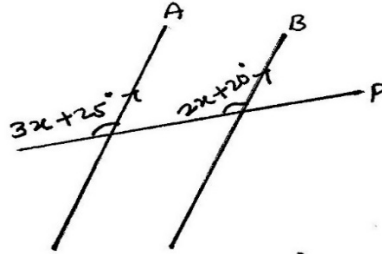
- c. If cost price is ₹700 and overhead expenses is ₹100. The selling price is ₹1600. Find its profit. (2)
- d. Solve:  $x - 2\frac{1}{3} = 5\frac{1}{2}$  (2)

QUESTION 6

- a. The sum of three consecutive odd natural numbers is 45. Find the numbers. (3)
- b. The perimeter and the breadth of rectangular grass plot is 260m and 55m respectively. Find the length and the area of the grass plot. (3)
- c. There is an increase of 30% in the rainfall of a city in one year. If the rainfall is 390cm this year, what was it a year ago? (4)

QUESTION 7

- a. Simplify:  $4x^2(3x-2)+3x(5x+6)-4(2x-6)$  (3)
- b. Construct  $\Delta ABC$  where  $AB = 6\text{cm}$ ,  $\angle A = 45^\circ$  and  $AC = 4.5\text{cm}$ . (3)
- c. The cost price of an article is `1200 and selling price is  $\frac{5}{4}$  times of its cost price. Find its profit or loss. (2)
- d. In the adjoining figure find the value of  $x$  (2)

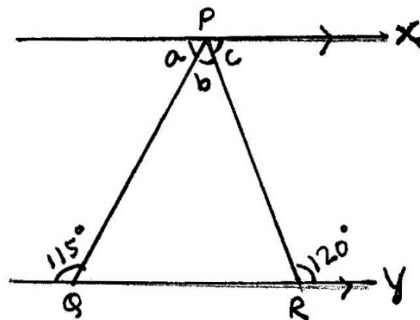


QUESTION 8

- a. Divide:  $(8a^2b^3c+4ab^2c^2-6abc) \div (-2a^2bc)$  (2)
- b. The following table shows the expenditure on different household items by a family. Display the data by a bar graph. (3)

Item	Food	Rent	Clothing	Educatio n	Saving	Others
Expenditur e	700	350	175	200	250	150

- c. In the adjoining figure find the value of the marked angle (3)



- d. Solve:  $\frac{x+4}{2} + \frac{x}{3} = 7$  (2)

\*\*\*\*\*