

ARMY PUBLIC SCHOOL, BINNAGURI

QUESTION BANK FOR CLASS 7

SESSION:2017-2018

SUBJECT: MATHEMATICS

CHAPTER 1: INTEGERS

ONE MARK QUESTIONS(VSA):

- 1) Evaluate: $|-35-21| - |8-3|$.
- 2) Arrange the following in ascending order:
-47, 12, -100, 49, -49, 0
- 3) Which one is greater?
(23-12+11) or (-15-10+3)
- 4) Write a pair of integers whose sum is a negative integer.
- 5) Find the value of: $(-3) \times (-6) \times (-17) \times 0$

TWO MARKS QUESTIONS(SA):

- 1) Verify: $28 \times [8+(-2)] = 28 \times 8 + 28 \times (-2)$
- 2) Simplify: $(3 \times 17) - \{8 \div (2 \times 3 - 4)\}$
- 3) Verify that: $(a \div b) \div c \neq a \div (b \div c)$ for $a = -72$, $b = 18$, $c = -2$.
- 4) Simplify: $14 \div (18 \div 3 - 3 + 4) - 2(5-3)$
- 5) Evaluate the following:
 - i) $[(-784) \div (-56)]$
 - ii) $13 \div [(-5) + 4]$

THREE MARKS QUESTIONS(LA):

1) Answer the following:

- i) For any integer a, what is $(-1) \times a$ equal to?
 - ii) Determine the integer whose product with (-1) is -22 .
 - iii) Write the greatest negative integer.
- 2) An elevator descends into a mine shaft at the rate of 7m per minute. If the descent starts from 10m above the ground level, how long will it take to reach 340 m below the ground level?
 - 3) Simplify: $9 - \{7 - 24 \div (11 + 6 \times 2 - 19)\} \times 8$.
 - 4) A certain freezing process requires lowering of room temperature at the rate of 4°C per hour. If in the beginning of the process the room temperature was 40°C then what will be the room temperature 10 hours after the freezing process begins?
 - 5) In a class test containing 10 questions, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted?
 - i) Reshma gets 4 correct and 5 incorrect answer. What is her score?
 - ii) Heena gets 2 correct and 5 incorrect answer out of eight questions she attempts. What is her score?

FOUR MARKS QUESTIONS(VLA):

- 1) In a competition, 5 marks are given for every correct answer and (-2) marks are given for every incorrect answer.

- i) Sanjay scored 30 marks. If he got 10 correct answers, how many questions she answered incorrectly?
 - ii) Rohini got 4 correct answers. If she scored (-12) marks in the competition , how many questions he answered incorrectly?
- 2) A shopkeeper earns a profit of ₹ 1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of his old stock.
 - i) In a particular month he incurs a loss of ₹ 5. In this period, he sold 45 pens. How many pencils did he sold in this period?
 - ii) In the next month, he earns neither profit nor loss. If he sold 70 pens, how many pencils did he sell?
 - 3) The temperature at noon was 10°C above zero. It descends at the rate of 2°C per hour until mid-night, at what time would the temperature be 12°C below zero? What would be the temperature at mid-night?
 - 4) In a competitive exam, 4 marks are given for every correct answer and 1 mark is deducted for every incorrect answer. Rohan copied some answers from Meenu and answered all the questions. He scored 30 marks though he got 10 correct answers. How many incorrect answer had de attempted? What values are being promoted in the question?
 - 5) Three friends collected money to give to their fourth friend who was in need of money to buy books. They gave ₹ 890, ₹ 445 and ₹ 570 respectively. How much total money they have given to the fourth friend who wants to buy books worth ₹ 2000? How much more money is required by the fourth friend? Somehow out of that total money the fourth friend lost ₹ 100, now how much more money is required by the fourth friend? What values are being promoted in the question?

CHAPTER 2: FRACTIONS AND DECIMALS

ONE MARK QUESTIONS(VSA):

- 1) What fraction of an hour is 45 minutes?
- 2) Reduce the following fractions to simplest form:
 - i) $\frac{48}{108}$
 - ii) $\frac{21}{14}$
- 3) Find the value of: $4\frac{1}{3}$ times of $5\frac{2}{3}$ metres.
- 4) Convert the following decimals to fractions in simplest form:
 - i) 0.18
 - ii) 0.45
- 5) Which number added to 5.56 gives 13.027?
- 6) Find the product: 4.5 X 0.3

TWO MARKS QUESTIONS(SA):

- 1) Arrange the following in ascending and descending order :

$$\frac{1}{12}, \frac{1}{23}, \frac{1}{5}, \frac{1}{7}, \frac{1}{17}$$
- 2) Surya purchased $4\frac{1}{3}$ kg of apples and $2\frac{3}{4}$ kg of mangoes. What is the total weight of the fruit purchased by him?
- 3) Simplify: $4\frac{3}{4}$ of $5\frac{5}{6} - \frac{3}{8}$
- 4) Express the following in kg using decimals:
 - i) 5 kg 82 g
 - ii) 17 kg 2 g
- 5) A two wheeler covers a distance of 36.8 km in two litre of petrol. How much distance will it cover in 5.5 litres of petrol?

6) Find the average of 4.3, 8.2, 9.4 and 3.6.

THREE MARKS QUESTIONS(LA):

- 1) In class A of 25 students, 20 passed. In another class B of 30 students, 26 passed. In which class was a greater fraction of students passed?
- 2) How many ice cream cones can be filled from 6.45 litres of ice-cream:
 - i) if one cone can be filled with 43 millilitres of ice cream?
 - ii) if one cone can be filled with 25 millilitres of ice cream?
- 3) An ornament is made of gold, copper and silver and weighs 52 grams. If $\frac{1}{13}$ of its part is copper and $\frac{5}{13}$ is silver, find the weight of pure gold in it.
- 4) Rohit packed 62.5 kg sugar in a number of bags. He put 2.5 kg sugar in each bag. How many bags of sugar did he pack?
- 5) Simplify:

$$15.3 \div 3 - \frac{1}{4} \text{ of } (18.6 - 5.8) + 0.5 \times 7.5$$

FOUR MARKS QUESTIONS(VLA):

- 1) In a class of 56 students, $\frac{1}{4}$ like blue colour, $\frac{3}{14}$ like yellow colour. Out of the remaining, $\frac{1}{3}$ likes green and rest likes red. Find the number of students liking the four different colours.
- 2) If Swati reads $\frac{4}{9}$ of a book on one day and $\frac{3}{5}$ of the remaining next day. If 100 pages of the book were still left unread, how many pages did the book contain?
- 3) Sushma brought 2 kg 500 g of oranges and 3 kg 750 g of mangoes. Sarla brought 4 kg 700 g mangoes and 2 kg 250 g of bananas. Who brought more fruits by how much?
- 4) Ankita bought $20\frac{1}{7}$ kg of rice at the rate of ` 17 $\frac{1}{5}$ and $14\frac{1}{5}$ kg of sugar at the rate of ` 13 $\frac{1}{2}$ and sent it to orphanage. Find the total amount spent by Ankita. What values are being promoted?
- 5) A contractor had a large field of dimensions 1376.5 m by 280 m. Find the area of the field. He left $\frac{1}{7}$ of this area to make a playground for the children of locality. Find the area of the playground. Which value of the contractor is being reflected in this act?

CHAPTER 3: RATIONAL NUMBERS

ONE MARK QUESTIONS(VSA):

- 1) Write two rational numbers equivalent to $\frac{3}{-7}$.
- 2) Write next two rational numbers in the given pattern:
 $\frac{2}{-7}, \frac{-4}{14}, \frac{-6}{21}, \frac{-8}{28}, \dots$
- 3) Draw a number line and represent $\frac{-3}{4}$ on it.
- 4) Find: $-1\frac{2}{3} - 2\frac{1}{6}$
- 5) Reduce each of the following rational numbers in standard form:

i) $\frac{72}{-36}$ ii) $\frac{-44}{-21}$

TWO MARKS QUESTIONS(SA):

- 1) Arrange the following rational numbers $\frac{-7}{10}$, $\frac{3}{-5}$, and $\frac{-5}{6}$ in ascending as well as descending order.
- 2) The product of two rational numbers is $\frac{-9}{16}$. If one of the number is $\frac{3}{14}$, find the other number.
- 3) Express $\frac{18}{-10}$ as a rational number with:
 - i) Denominator 5
 - ii) numerator 72.
- 4) Find the following products:
 - i) $\frac{-5}{12} \times \frac{16}{25}$
 - ii) $-2\frac{5}{8} \times 1\frac{3}{7}$
- 5) Which rational number is greater $-5\frac{5}{9}$ or $-5\frac{7}{12}$?

THREE MARKS QUESTIONS(LA):

- 1) Insert four rational numbers between -5 and -4.
- 2) What number should be added to $-2\frac{5}{8}$ to get $1\frac{7}{12}$?
- 3) Rashmi walks $2\frac{6}{12}$ km from a place A towards North and then from there she walks $4\frac{3}{9}$ km towards South. Where will be she now from place A?
- 4) Which of the following pairs of rational number are equal?
 - i) $\frac{-15}{10}$, $\frac{-27}{18}$
 - ii) $\frac{-14}{-20}$, $\frac{-70}{100}$
 - iii) $\frac{28}{18}$, $\frac{-42}{-27}$
 - iv) $\frac{-5}{12}$, $\frac{-3}{-12}$
- 5) What should be subtracted from $\frac{-5}{8}$ to get $\frac{-13}{4}$?
- 6) Find the value of:
 $\frac{-8}{13} \div \frac{4}{-39} \div \frac{12}{3} + \frac{2}{4}$

FOUR MARKS QUESTIONS(VLA):

- 1) Find six rational numbers between $\frac{4}{3}$ and $\frac{5}{2}$.
- 2) From a rope 21 m long, $3\frac{1}{3}$ m is cut off and $\frac{3}{5}$ of the remaining is cut off again. Find the length of the remaining part of the rope.
- 3) Find the value of:
 $\left[\left(\frac{2}{3}\right) \times \left(\frac{-105}{128}\right) \times \left(-1\frac{29}{35}\right)\right] \div \frac{4}{5}$
- 4) Perimeter of a rectangle is 4 m less than $\frac{2}{5}$ of the perimeter of a square. If the perimeter of the square is 60 m, find the length and breadth of the rectangle given that the breadth is $\frac{1}{4}$ of the length.
- 5) Sangita donated, $\frac{1}{6}$ of her monthly income to an NGO working for the education of women and orphan children, $\frac{1}{4}$ of her salary spent on food, $\frac{1}{4}$ on rent, $\frac{1}{12}$ on other expenses. If she is left with ₹ 18000, find her monthly income. What values are being promoted in the question?

ONE MARK QUESTIONS(VSA):

- 1) Find the value of $(-3)^5$.
- 2) Write 128 as power of 2.
- 3) Find the value of x, if $6^x = 216$.
- 4) Write the prime factorisation of 2187 in exponential form.
- 5) Write 0.0000306 in standard form.

TWO MARKS QUESTIONS(SA):

- 1) Simplify and express the result in exponential form:
 $4^3 \times 5^0 + (-3)^4 - 7^0$
- 2) Express the following in standard form :
 - i) 4880000
 - ii) 305000000
- 3) Which one is greater in the following:
 - i) 4.3×10^5 or 0.033×10^6
 - ii) 0.35×10^4 or 0.45×10^5
- 4) Write the following in usual decimal notation:
 - i) 1.223×10^4
 - ii) 6.05×10^8
- 5) Write the following numbers in the expanded exponential form:
 - i) 34567
 - ii) 30705

THREE MARKS QUESTIONS(LA):

- 1) In each of the following which one is greater?
 - i) 3^2 or 2^3
 - ii) $(-4)^4$ or $(3)^2$
 - iii) $(5)^2$ or $(2)^5$
- 2) Find the value of x, if $\left(\frac{3}{7}\right)^x = \left(\frac{243}{16807}\right)$.
- 3) Write the following numbers as a power of (-3):
 - i) 81
 - ii) -243
 - iii) -27
- 4) Simplify and write in the exponential form: $(5)^3 \times (5)^0 + (-3)^2 - (7)^2$.
- 5) Simplify : i) $(-5)^{-4} \times (5)^2 \times (5)^2$
ii) $[(3^2)^4 \times 3^6] \div 3^8$

FOUR MARKS QUESTIONS(VLA):

- 1) Simplify: $\left(\frac{3}{5}\right)^8 \div \left(\frac{3}{5}\right)^5 \times \left(\frac{3}{5}\right)^8 \times \left(\frac{5}{3}\right)^{11}$.
- 2) Find the value of: $[(4^2)^3 \times 3^6 \times (5^2)^3] \div [(5^2)^6 \times (2)^3 \times 3^7]$.
- 3) Simplify: $\left(\frac{12^5}{6^4}\right) \times \left(\frac{3^5}{8^2}\right) \times \left(\frac{2^2}{27}\right)$.
- 4) Prove that: $\left(\frac{x^b}{x^c}\right)^a \times \left(\frac{x^c}{x^a}\right)^b \times \left(\frac{x^a}{x^b}\right)^c = 1$.
- 5) Cholera is caused by a bacteria. The size of that bacteria is about 0.000000000065 mm. Express its size in standard form. If Varun is suffering from cholera, his doctor

advised him to take healthy food and avoid eating food or drinking beverages from street vendors.

Give two reasons for each: Why should we eat healthy food and why should we not eat food from street vendors?

CHAPTER 5: ALGEBRAIC EXPRESSIONS

ONE MARK QUESTIONS(VSA):

- 1) Form the algebraic expressions using variables, constants and arithmetic operations for the following:
 - i) One-fourth of the product of m and n.
 - ii) The number y is multiplied by itself and added to four times of z.
- 2) Identify the non-constant terms and write their numerical coefficients in each of the given algebraic expression:
 - i) $5a - \frac{3}{7}b^2 + 9$
- 3) Identify the terms and their factors in the algebraic expression given below: $1.5xy - 2.4y$
- 4) In $-18x^2y^3z^5$, write the coefficients of:
 - i) $-xy^3$
 - ii) $18y^2z^5$
- 5) Give one example of each, a binomial and a trinomial.

TWO MARKSQUESTIONS(SA):

- 1) Add $17x^2yz^3$, $-2x^2yz^3$ and $-13x^2yz^3$.
- 2) Subtract $x - z + 2y$ from $3x + y - 2z$.
- 3) What should be taken away from $3x^3 - 5x^2 - x + 2$ to get $4x^3 + 3x - 5$?
- 4) If $a=4$, $b=2$ and $c=-3$, find the value of: $3ab - 2b^2 + 4abc$.
- 5) Write the degree of the following polynomials:
 - i) $-2.4y + 3y^2$
 - ii) $3x - 5xyz^3 + y^3$

THREE MARKS QUESTIONS(LA):

- 1) Simplify the given expression and find its value when $x = -2$:
 $2(x^3 - 3x^2) - 5(7x - 4)$

- 2) Classify the following as monomial, binomial or trinomial:
- $3x + 7y^2$
 - $-4x - 5 + 3x$
 - $7a + 8ab - 6c$
- 3) Using column method, add $ab + 5bc - ca$ and $4ab - bc - ca$ and subtract the sum from $6ab + 5bc - 3ca$.
- 4) If $a=3$, $b= -1$, then find the value of each of the following:
- $(ab)^a$
 - $(a+b)^b$
- 5) If two adjacent sides of a rectangle are $4x + 3y$ and $3y - x$, find its perimeter.

FOUR MARKS QUESTIONS(VLA):

- The length of a rectangle is $3x - 6y + 8z$ and the perimeter is $8x - 8y + 10z$, find the breadth of the rectangle.
- From the sum of $4 + 3x - x^2$ and $5 - 4x + 5x^2$, subtract the sum of $5x^2 - 5x + 4$ and $-x^2 + 2x + 5$.
- Simplify: $\frac{2x}{5} + \frac{4x}{3} - \left(\frac{8x}{3} + \frac{2x}{5}\right)$
- If $a=3$, $b=4$, then find the value of each of the following:
 - $\left(\frac{a}{b} + \frac{b}{a}\right)^a$
 - $\left(\frac{b}{a}\right)^b$
- When $a=3$, $b=0$, $c= -2$, find the values of:
 - $ab + 2bc + 4abc$
 - $a^3 + b^3 + c^3 - 3abc$

CHAPTER 6: LINEAR EQUATIONS

ONE MARK QUESTIONS(VSA):

- Solve for the value of y : $2y - 3=5$.

- 2) State whether the given equation is a linear equation in one variable or not. Give reason for your answer.

$$7x - 4 = 2$$

- 3) If 5 is added to twice a number, the result is 11. Find the number.
- 4) Find the solution of the following equations:
- $y - 3 = 8$
 - $8 + x = 3$

TWO MARKS QUESTIONS(SA):

- 1) Solve the equation: $\frac{x}{2} - 5 = \frac{x}{3} - 6$
- 2) Solve the given equation and verify your answer:
 $4(7 - x) = 16$
- 3) If thrice a certain number is diminished by 7, the result is 9 more than the number. Find the number.
- 4) Find a number, such that one-third of the number is two more than 7.
- 5) Fill in the blanks:
- The number 4 is the of the given equation $2y - 5 = 3$.
 - A linear equation in one variable cannot have more than variable.

THREE MARKS QUESTIONS(LA):

- 1) Anup is eight years older than his sister. In next three years he will be twice as old as his sister. How old are they now?
- 2) The sum of two numbers is 90 and the greater number exceeds twice the smaller number by 20. Find the numbers.
- 3) The length of each of two equal sides of an isosceles triangle is 4m less than twice the length of the third side. Find the dimensions of the triangle if its perimeter is 57 m.
- 4) Two complementary angles differ by 30° . Find the measure of each angle.
- 5) Reeta has only ₹ 2 and ₹ 5 coins in her pocket. If in all she has 75 coins in her pocket amounting to ₹ 225, find the number of ₹ 2 coins.

FOUR MARKS QUESTIONS(VLA):

- 1) A son's present age is half the present age of his mother. Ten years ago, the mother was thrice as old as her son. What are their present ages?
- 2) On her 25th birthday, Sudha decided to distribute sweaters to the poor people. One third of the sweaters she distributed to orphanage, three fourth of the remaining in an old age home and rest 30 were distributed to road side beggars. Find the number of blankets she had?
What values are being promoted in this act?
- 3) Two persons start moving from two points A and B in opposite directions towards each other. One person start moving from A at the speed of 6 km/ h and meets the other person coming from B after 4 hours. If the distance between A and B is 52 km, find the speed of the other person.
Write two benefits of walking.
- 4) There are some benches in a classroom. If 3 students sit on each bench then 4 benches remains empty and if 2 students sit on each bench then 4 students remain standing. Find the no of students in the class.
Mention two ways in which students can sit comfortably.

CHAPTER 7: RATIO AND PROPORTION

ONE MARK QUESTIONS(VSA):

- 1) Find the ratio of 30 minutes to 1.5 hours in simplest form.
- 2) Express the given ratio in simplest form: $4\frac{2}{3} : 1\frac{3}{8}$
- 3) Find x in the given proportion: $x : 4 :: 45 : 5$.
- 4) Which ratio is greater $36 : 48$ or $3 : 12$?
- 5) If 8 pen costs ₹ 96, then what would be the cost of 4 such pens?

TWO MARKS QUESTIONS(SA):

- 1) A certain sum of money has been divided into two equal parts in the ratio 5:8. If the first part is ₹ 250, find the total amount.
- 2) 6 grams of an alloy contains $3\frac{3}{4}$ grams of gold and the rest is silver. Find the ratio by weight of silver to gold.
- 3) Find the fourth proportional to 1.5, 2.5, 4.5.
- 4) The weights of Ria and Deeti are in the ratio 5:7. If Deeti weighs 42 kg, find the weight of Ria.

- 5) Half metre cloth costs ₹ 30. How much would $2\frac{3}{5}$ metres of the same cloth costs?

THREE MARKS QUESTIONS(LA):

- 1) Out of daily income of ₹ 520, Ram spends ₹ 320 on food and shelter and saves the rest. Find the ratio of his:
- Income to spending
 - Spending to saving
 - Saving to income
- 2) Heights of Nikita and Priya are 154 m and 84 cm respectively. Divide 34 sweets between them in the ratio of their heights.
- 3) Check whether 8, 56,392 are in continued proportion or not.
- 4) If 2.5 litres of milk cost ₹ 42.5, how much milk will cost ₹ 595.
- 5) State whether the given statements are true or false:
- $7 : 5 :: 21 : 15$
 - $13 : 26 = 17 : 24$
 - Ratio of an hour to 20 minutes is 30:20.

FOUR MARKS QUESTIONS(VLA):

- 1) Rafiq divided his property into three parts in the ratio 3 : 2 : 5. If the first part 1,50,000 , the second part is donated to a primary school and the third part is donated to an orphanage, find the amount donated to the school and the orphanage and his entire property.
What values of Rafiq are being promoted in this act?
- 2) Present ages of Monu and Manish are in the ratio 7 : 5. 8 years hence ratio of their ages will be 25 : 19. Find their present ages.
- 3) The ratio of numerator to denominator in a fraction is 3 : 4. If 3 is added to the numerator and 2 is subtracted from the denominator, the ratio of numerator to denominator becomes 6 : 5. Find the fraction.
- 4) Ratio of length and breadth of a rectangle is 3:2. If the length of the rectangle is 20 m more than the breadth, find the dimensions of the rectangle and also its perimeter.

CHAPTER 8: PERCENTAGE AND ITS APPLICATION

ONE MARK QUESTIONS(VSA):

- Express the following ratios as percentages:
 - 5 : 4
 - 2 : 3
- Express the following percentages as ratios:
 - 46%
 - 73%
- Reena ate 3 chocolates out of 5 kept in the fridge. What percent did Reena eat?
- Find 120% of ₹ 250.
- Rinky bought a calculator for ₹ 760 and sold it for ₹ 874. Did she incurred a loss or she gained a profit.
- Sunita takes a loan of ₹ 4000 at 12 % per year as rate of interest. Find the interest she has to pay at end of one year.

TWO MARKS QUESTIONS(SA):

- A laptop costing ₹ 50000 one year ago now costs ₹ 40000. Find the percentage increase or decrease in the price.
- In a class of 45 students, 20% students are girls. How many students are boys?
- Shyam save ₹ 500 from his salary. If this is 10% of his salary, then what is his salary?
- In Seema's childhood petrol was ₹ 4 per litre. It is ₹ 65 per litre today. By what percentage has the price of petrol gone up?
- By selling a fridge at ₹ 16920, a dealer suffers a loss of ₹ 1080. Find his loss percentage.
- If ₹ 7000 is borrowed at 3.5% rate of interest p.a. for 2 years, find the amount to be paid at the end of the second year.
- Find the time when ₹ 1250 amounts to ₹ 1950 at 16% per annum.

THREE MARKS QUESTIONS(LA):

- Express:

- i) 30 as percentage of 45.
 - ii) 30 paise as a percentage of 4 rupees.
 - iii) 500 grams as percentage of 1 kilogram.
- 2) A student has to score 35% marks to pass an exam. Sweety scored 154 marks and failed by 21 marks. Find the maximum marks.
- 3) 44% of the teachers in a school are males and the number of female teachers is 42. Find the total number of teachers in the school.
- 4) Selling price of a toy car is ₹ 540. If the profit made by the shopkeeper is 20%, what is the cost price of this toy car?
- 5) An item was sold for ₹ 532 at a loss of 5%. What was its cost price?

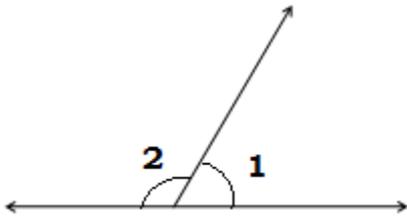
FOUR MARKS QUESTIONS(VLA):

- 1) By selling a fan for ₹ 710, a trader suffers a loss of ₹ 40. Find the cost price of the fan. At what price this fan must be sold in order to gain a profit of 20%?
- 2) One bad apple is mixed with some good apples in a basket. As a result of which 25% of the total apples go bad. If the number of remaining good apples is 30. Find the number of good apples kept in the basket previously. What will happen if a bad person is mixed with some good ones?
- 3) In a class of 40 students who are patriotic out of which 40% believe in non-violence. Find the number of students who believe in non-violence. Explain the importance of non-violence in patriotism.
- 4) A manufacturer sells an item to an agency at a profit of 25%. The agency sells the item to a shopkeeper at 10% profit and shopkeeper sells the item at a profit of 20%. If the selling price of the item is ₹ 594, find the manufacturing price.

CHAPTER 9: LINES AND ANGLES

ONE MARK QUESTIONS(VSA):

- 1) Define complementary angles.
- 2) Find the supplement of each the following angles:
- i) 66°
 - ii) 123°
- 3) In the adjoining figure:



Sum of angle 1 and 2 is

4) Find the complement of each the following angles:

i) 43°

ii) 67°

5) If one angle of a linear pair is acute, then the other angle is

TWO MARKS QUESTIONS(SA):

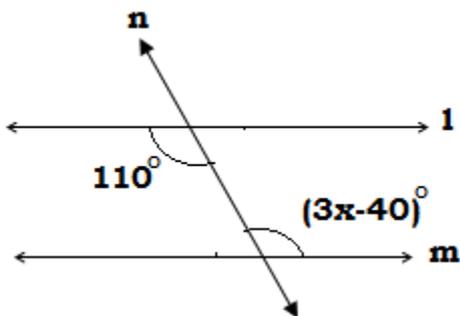
1) Fill in the blanks:

i) The angle which is equal to its complement is

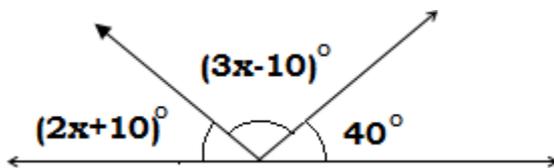
ii) The angle which is equal to its supplement is

2) Two complementary angles are $(x + 4)^\circ$ and $(2x - 7)^\circ$, find the value of x .

3) In the adjoining figure, if $l \parallel m$, then find the value of x .

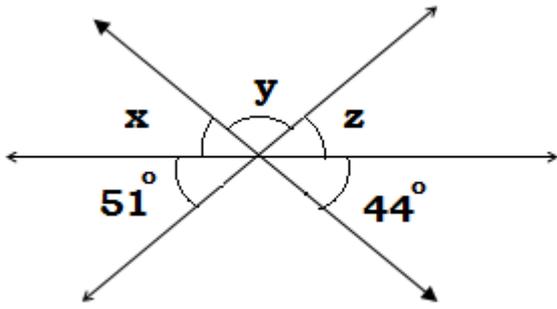


4) In the adjoining figure, find the value of x .

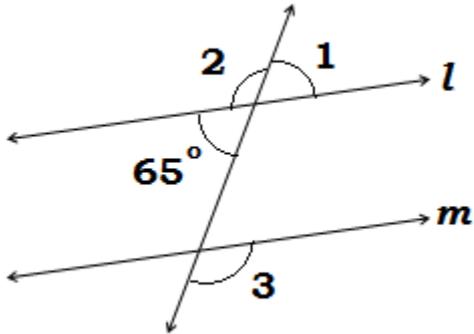


THREE MARKS QUESTIONS(LA):

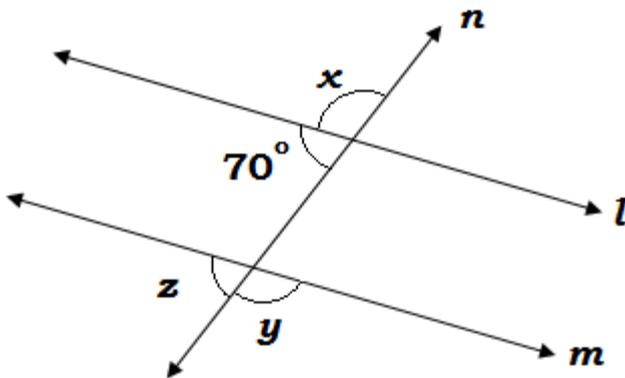
1) Find the values of x, y and z in the given figure:



2) In the adjoining figure $l \parallel m$, find all the marked angles.

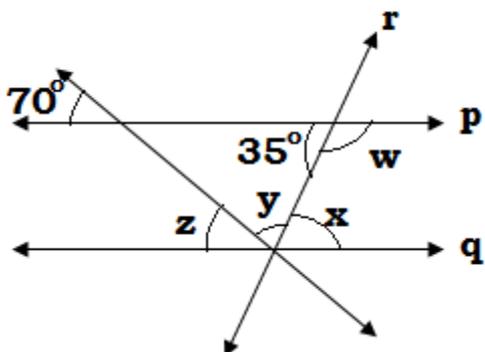


3) In the adjoining figure $l \parallel m$, find x , y and z .

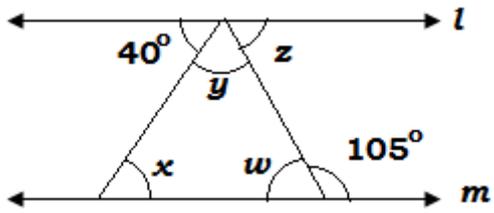


FOUR MARKS QUESTIONS(VLA):

1) In the adjoining figure $p \parallel q$, find the values of w, x, y and z .



2) In the adjoining figure $l \parallel m$, find the values of w, x, y and z .



3) In the adjoining figure if, $l \parallel m$ and $p \parallel q$, find the values of a , b , c and d .

