ARMY PUBLIC SCHOOL BINNAGURI

QUESTION BANK 2017

SUBJECT : MATHEMATICS

Class- VI

CHAPTER ONE :KNOWING OUR NUMBERS

1 MARK TYPE QUESTIONS

Q1. *Write the number 750687 in the expanded form.*

Q2. Determine the difference between the place values of two 7's in 3,70,14,472.

Q3. Write the greatest and the smallest three digit numbers using the digits 7,0 and 6. Repetition of digits is not allowed.

Q4.Estimate the number 47,599 to its nearest thousands.

Q5. Write in Hindu-Arabic numeral : MLXXXIV. Write in Roman numeral: 994

2 MARKS TYPE QUESTIONS

Q1. Find the product of the face value and the place value of 8 in the number 60,38,124.

Q2. Find the difference between greatest number of 6 digit and the smallest number of 7 digits.

Q3.The mass of each gas cylinder is 21 kg .what is the mass of 28 such cylinders ?

Q4. A vessel has 4 litres 500 millilitres of orange juice. In how many glasses, each of 25 ml , capacity can it be filled ?

Q5. Estimate the product 1291x 592 by rounding off each factor to its greatest place.

Q6. Write each of the following numbers in the roman numerals :

(i) 269 (ii) 598

Q7. Write the greatest and smallest 4-digit numbers using different digits with the condition that 5 occurs at ten's place.

Q8. Find the difference between the number 895 and that obtained on reversing its digits.

Q9. Write each of the following numbers in numeral form and place commas correctly.

(a) Seventy three lakh seventy thousand four hundred seven.

(b) Fifty eight million four hundred twenty three thousand two hundred two.

Q10. Find the difference between the greatest and the smallest 4-digit numbers formed by the digits 0,3,6,9.

3 MARKS TYPE QUESTIONS

Q1. Write all 4-digit numbers that can be formed with the digits 2 and 5 using both digits equal number of times . Also find their sum.

Q2. Arrange the following numbers (i) 3706, 58019, 3760, 59801,560023 in ascending order.

(ii) 9899, 8989, 9988, 9898, 8998 in descending order.

Q3. Find the sum, difference and product of the greatest number of 4-digit and the smallest number of 5-digits.

Q4. The distance between Anu's home and her school is 4 km 85 m Everyday she cycles both ways. Find the distance covered by her in a week.(Excluding Sunday as holiday). What are the advantages of cycling ?

Q5. A merchant had *Rs* 78,592 with him. He placed an order for purchasing 54 bicycles at *Rs* 970 each. How much money will remain with him after the purchase.

4 MARKS TYPE QUESTIONS

Q1. To stitch a shirt, 2 m 15 cm cloth is needed. Out of 40 m cloth, how many shirts can be stitched and how much cloth will remain ?

Q2.Rajan Book Store sold books worth Rs 2,85,891 in the first week of June and worth Rs 4,00,768 in the second week of the same month. Then

(i) How much was the sale for the two weeks together ?

(ii) In which week was the sale greater and by how much ?

Q3. Using place value chart write the greatest and smallest number of 4-digits that can be formed by the digits 3,7,8 and 1; use each digit only once. Also find their difference .

Q4. (a) Find how many 3-digit numbers are there in all.

(b) Find how many 2-digit numbers are there between 10 and 100.

Q5. Write The number name in the Indian System and International system for the following numbers (i) 15032109 (ii) 9750687.

CHAPTER TWO:WHOLE NUMBERS

1 MARK TYPE QUESTIONS

Q1.Write the successor of the whole number 58999 and predecessor of the whole number 6000.

Q2. Write the whole number whose successor is 379600.

Q3. Write the number whose predecessor is 72399.

Q4. Fill in the blanks with correct number : 337 + (528+1164) = (337+.....)+ 1164.

Q5. Fill in the blank with correct number to make the statement true :

473x108=473x100+473x.....

Q6. State true or false:

(i) If the product of two whole numbers is zero , then at least one of them will be zero. ( )

(ii) If the product of two whole numbers is 1 , then each of them must be equal to 1. ( )

Q7. Write the next three consecutive whole numbers of the number 9998.

Q8. Fill in the blank with correct information to make the statement true

(i) If a is a non-zero whole number and a x a = a, then a = ...

(ii) The additive identity in whole numbers is .....

Q9. Write all the square number between 10 and 50.

Q10. Complete the pattern :

9 x 9 + 7 = 88

98 x 9 + 6 = 888

987 x 9 +5 = 8888

9876 x 9 + 4 = ...

98765 x 9 + 3 = ...

2 MARKS TYPE QUESTIONS

Q1. Find the number of whole numbers lying between 99 and 300.

Q2. Write which one from the following is an example of Commutative property of addition and which one is associative law of addition ?

(i) *If a and b are any two whole numbers, then a + b = b + a.* ----------

(ii) If a, b and c are any three whole numbers, then (a + b) + c = a + (b +c). ----------

Q3. Find the sum 837 + 509 + 363 by suitable arrangement.

*Q4. Replace each * by the correct digit in each of the following*

*6 5 0 **

*- * 0 * 5*

----

*4 * 5 7*

Q5. Using short method , find 203 x 9999

3 MARKSTYPE QUESTIONS

Q1. Find the sum of 123 , 254, 37, 105 and 5046 by suitable arrangement.

Q2. Find the value of the following by suitable arrangement :

81265 x 187 – 51265 x 87.

Q3. Divide 7750 by 17 and check the result by division Algorithm.

Q4. Find the value of 60678 x 262 – 60678 x 162

Q5. Find the largest three-digit number which is exactly divisible by 47.

Q6. Find the product by suitable arrangements :

309 x 25 x 7 x 8

Q7. Find the value of 236 x 414 + 236 x 563 + 236 x 23 by using suitable properties.

Q8. The height of a slippery pole is 10 m and an insect is trying to climb the pole. The insect climbs 5 m in one minute and then slips down by 4 m . In how much time will the insect reach the top ?

4 MARKS TYPE QUESTIONS

Q1. Name the properties of multiplication associated with the following statements :

(i) *If a and b are any two whole numbers, then a x b = b x a.* ----------

(ii) If a b and c are any three whole numbers, then (a x b) x c = a x (b x c). ----------

(iii) If a b and c are any three whole numbers, then a x (b + c)= a x b + a x c

(ii) If a and b are any two whole numbers , then a x b is also a whole number.

Q2. Which least number should be added to 1000 so that 53 divides the sum exactly.

Q3.Find the greatest and least numbers of four digits which are exactly divisible by 35.

Q4. Simplify the following :

(i) 625 x 239 x 16 *(ii) 370 x 1587 – 37 x 10 x 587*

Q5. Find the smallest 5-digit number which is exactly divisible by 279.

CHAPTER THREE :PLAYING WITH NUMBERS

1 MARK TYPE QUESTIONS

Q1. Write all the factors of 18.

Q2.What is a prime number ? Write the prime numbers between 10 and 20.

Q3. What are twine primes ? Write the pairs of twine primes between 1 and 20.

Q4. Fill in the blanks :

(i) The smallest The smallest odd prime number is .....

(ii) The smallest odd composite number is .....

Q5. State **True** or **False :**

(i) The product of three odd numbers is an odd number. ( )

(ii) All prime numbers are odd. ( )

Q6. Express the number 36 as the sum of two odd primes.

Q7. What is the rule of divisibility by 6?

Q8. What is the rule of divisibility by 3

Q9. (i) What is the HCF of two consecutive odd numbers ?

(ii) What is the HCF of two consecutive even numbers ?

Q10. Find the prime factors of 30.

2 MARKS TYPE QUESTION S

Q1. Find the prime factorisation of 315 by making prime factor tree.

Q2.Find the HCF of 98 and 429 by prime factorisation>

Q3. Find the LCM OF 24, 28 and 196.

Q4. Examine whether the number 12345678 is divisible by 3 or not .

Q5. Examine whether the number 7136985 is divisible by 11 or not.

Q6. Determine if 372645 is divisible by 45.

Q7. A number is divisible by 3 and 8. By which other numbers will that number be always divisible ?

Q8. Find the prime factors of the smallest number of five digits.

Q9. Find the HCF of 198 and 429 by division method.

Q10. Write all the factors of 48 and 72 separately. Hence find the HCF of these two numbers.

3 MARKS TYPE QUESTIONS

Q1. Find the G.C.D of the numbers 180, 252, 324 by prime factorisation method.

Q2. Find the HCF of the numbers 112, 168, 266 by division method .

Q3. Find the greatest number which divides 290 and 538 leaving remainders 3 and 5 respectively.

Q4. Test the divisibility of the number 78056 by 4 and 8.

Q5. A number is divisible by both 5 and 12 . By which other numbers will that number be always divisible ? Find them.

Q6. Find the greatest number which can divide 257 and 329 so as to leave a remainder 5 in each case.

Q7. Meenu purchases two bags of rice of weight 75kg and 69 kg. Find the maximum value of weight which can measure the weight of the rice exact number of times.

Q8. Find the LCM of the numbers 36, 40, 126 by prime factorisation method.

Q9. Find the LCM of the numbers 24, 40, 84 by division method.

Q10. Find the least number which when divided by 6, 15 and 18 leaves remainder 5 in each case.

Q11. Three boys step off together from the same spot. The steps measure 63 cm, 70cm and 77 cm respectively. What is the minimum distance each should cover so that all can cover the same distance in complete steps.

Q12. If the product of two numbers is 4032 and their HCF is 12 , find their LCM.

Q13. Find the smallest number of five digits which is divisible by 12, 15 and 18.

Q14. Find the least number which on adding 10 is exactly divisible by 14, 35 and 40 .

4 MARKS TYPE QUESTIONS

Q1. Find all the prime factors of 1729 and arrange them in ascending order. Now state the relation, if any, between two consecutive prime numbers.

Q.2. Find the HCF of 54, 144 and 210 by prime factorisation method.

Q3. The length, breadth and height of a room are 8 m 25 cm, 6 m 75 cm and 4 m 50 cm respectively. Find the longest tape which can measure the three dimensions of the room when used an exact number of times.

Q4. Find the largest number that will divide 623, 729 and 841 leaving remainders 3. 9 and 1 respectively.

Q5. Find the least number which when divided by 12, 16 and 36 leaves a remainder 7 in each case.

Q6. The HCF and LCM of two numbers are 6 and 840 respectively. If one of the numbers is 42 find the other number.

Q7. Find the least number of five digits which is exactly divisible by 32, 36 and 45.

Q8. Find the LCM of 20, 36, 63, 77 by division method.

Q9. Traffic lights at different road crossing changes after 48 seconds, 72 seconds and 108 seconds respectively. What time will they change together again if they change simultaneously at 7 A. M. ?

Q10. Find HCF of 180 and 336. Hence find their LCM.

CHAPTER FOUR: ***INTEGERS***

1 MARK QUESTIONS:

Q1.Which integer will you get if you move 5 units to the right of -2 on a number line ?

Q2. Evaluate $|-15| - |-11|$

Q3. Arrange the integers $-33, 37, 5, -61, -9$ in the ascending order.

Q4. Arrange in the descending order : $-49, -6, -11, 5$.

Q5. Write the greatest negative and the smallest positive integers.

Q6. Use appropriate symbol '+' *or* '−' to express:

(a) Deposite of R_s 2500 in the bank.

(b) 240 m below the sea level.

Q7. Evaluate : $(-131) + 97$.

Q8.Evaluate : $(-2) - (-5)$

Q9. Subtract : $-235\ from - 411$.

Q10.Write the predecessor of -50 and successor of -41.

Q11. If the sum of two integers is -21 and one of them is -10 then the other is

(a) -32 (b) 32 (c) -11 (d) 11 (Choose the correct answer.)

2 MARKS QUESTIONS

Q1.Evaluate : $1309 + (-2811)$

Q2. Evaluate : Evaluate $(-526) - (-217)$

Q3. Using the number line , find the value of $(-4) + 5$

Q4. The sum of two integers is -23. If one of them is -5, find the other.

Q5. Find the predecessor and the successor of the integer -735.

Q6.Arrange the integers $-39, 35, -102, 0, -51, -5, -6, 7$ descending order.

Q7. Write four consecutive integers preceding -97.

3 MARKS QUESTION

Q1. Draw a number line and answer the following questions:

(a) Which integer will we reach if we move 5 units to the right of -2 ?

(b) Which integer will we reach if we move 6 units to the left of 1 ?

(c) In which direction should we move to reach $-7\ from -2$?

Q2. Work out and find the value of $(-115) - 210 - (-105)$

Q3. Evaluate : $372 + (-584) - (-98)$.

Q4. Evaluate : $-121 - (-78) + (-193) + 576$.

Q5. Find the value of : $31 + (-23) - 35 + 18 - 4 - (-3)$

Q6.Rashmi deposited R_s 4370 in her account on Monday and then withdrew R_s 2875 on Tuesday. Next day she deposited R_s 1550. What was the balance on Thursday ?

Q7. Find the value of $-237 - (-328) + (-205) - 76 + 89$.

Q8. Arrange the following integers in descending order :

$-353, 207, -289, 702, -335, 0, -77$.

CHAPTER FIVE: *B BASIC GEOMETRIC CONCEPT*

2 MARK QUESTION

Q1. What is a line ? Draw a figure to show a line .

Q2 Draw a figure using lines to show that there is exactly one line passing through two distinct points.

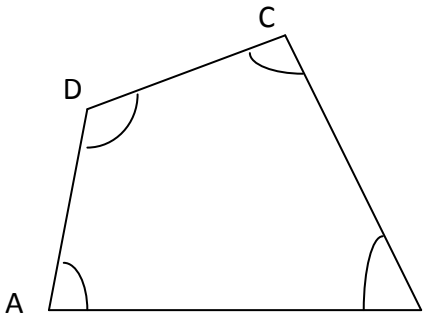
Q3. What are collinear points ? Draw a figure to show any four collinear points.

Q4. Define a line segment in geometry. Mention one difference between a line segment and a line .

Q5. What are parallel lines ? Draw a figure to show a pair of parallel lines.

Q6. Define an angle . Draw a figure to show an acute angle and name it.

Q7. Identify the given figure and write the names of the four angles shown here.



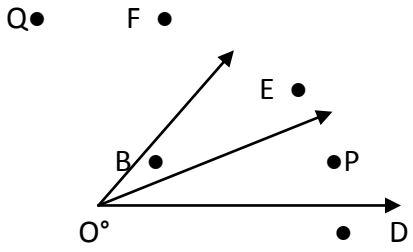
Q8. Draw a circle of any convenient size and label its one chord and one diameter.

Q9. Define (a) Chord of a circle (b) Diameter of a circle.

Q10. What do you mean by a sector of a circle ? Show the minor sector part and major sector part with shading in a figure of a circle.

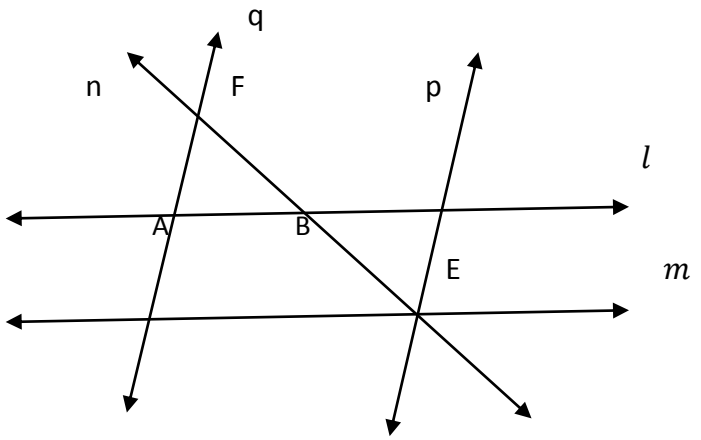
Q11. In the adjoining figure name the point(s)

(i) in the interior of $\angle EOD$ (II) In the exterior of $\angle FOE$



3 MARKS QUESTIONS

Q1. From the given figure , write : (a) all pairs of parallel lines (b) all pairs of intersecting lines. (c) Three concurrent lines and the point of concurrence.



Q2. Mark three non-collinear points A, B and C on your answer sheet. Draw lines through these points taking two at a time and name these line segments.

Q3. What do you mean by an open curve and a closed curve. Draw diagrams to show these curves.

Q4. What is a triangle ? Draw a triangle . Show some points on the (i) interior (ii) exterior and (iii) the boundary of the triangular region.

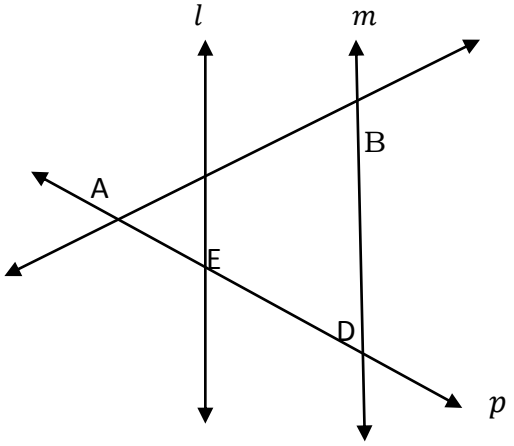
Q5. With the help of rough sketch of a circle, define the terms (i) Circumference (ii) semicircle (iii) Minor and major arc .

Q6.In the adjoining figure, Write

(i) all pairs of parallel lines.

(ii) all pairs of intersecting lines

((iv) Two sets of collinear points



C n

4 MARKS QUESTIONS

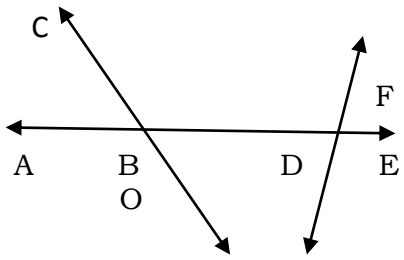
Q1. Use the adjoining figure to name :

(a) Line containing point C

(b) Line passing through D

(c) Two sets of collinear points.

(d) Two pairs of intersecting lines.



Q2. Take four distinct points A, B, C and D, no three of which are collinear.

(i) Join all the possible pairs of points with straight line segments.

(ii) Name all the line segments that you have obtained.

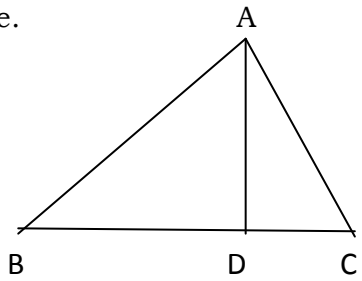
Q3. Draw a figure of a quadrilateral ABCD. Name all its interior angles . Name two pairs of its opposite sides.

Q4. In the context of the given figure given below answer the following questions:

(i) Identify and write the names of three triangles .

(ii) Write the names of all the angles in the figure.

(iii) Write the names of six line segments .



Q5. Draw a rough sketch of a quadrilateral KLMN. From your sketch state

(i) Two pairs of opposite sides.

(ii) two pairs of opposite angles.

(iii) two pairs of adjacent sides

(iv) two pairs of adjacent angles.

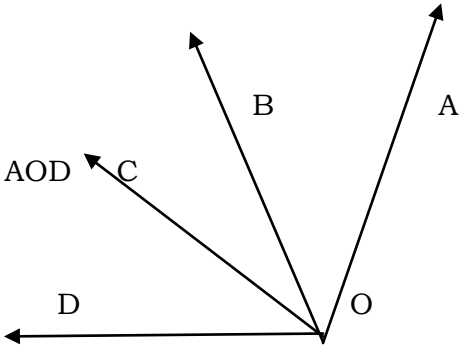
Q6. In context of the adjoining figure, write :

(i) the points located in the interior of ∠AOD

(ii) the points in the exterior of ∠AOB

(iii) The greatest angle

(iv) the smallest angle



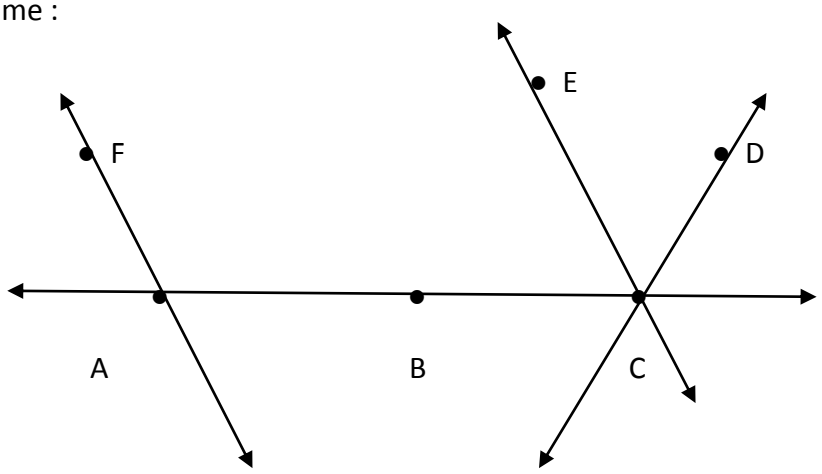
Q7. Use the adjoining figure to name :

(i) parallel lines

(ii) concurrent lines

(iii) collinear points

(iv) two opposite rays.



CHAPTER SIX : *UNDERSTANDING ELEMENTARY SHAPES*

1 MARKS QUESTIONS

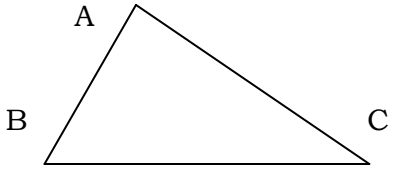
Q1. In the adjoining figure of triangle ABC, state which relation is true among the following

(i) $AB + BC > AC$

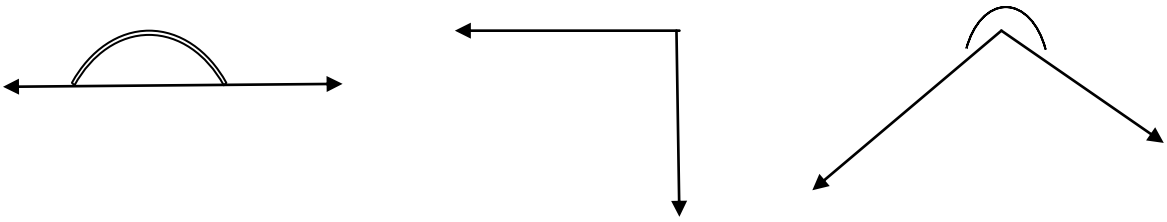
(II)$BC + AC > AB$

(III)$AC + AB > BC$

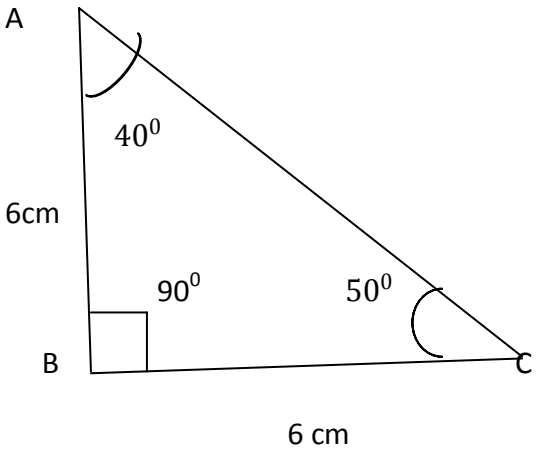
(IV) All of these.

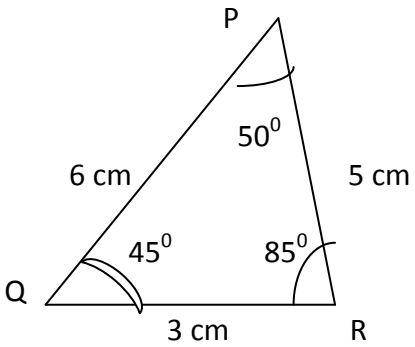


Q2. What is the time taken by the minute hand of a clock to make one complete rotation ?
Q3. What fraction of a clockwise revolution does the hour hand of a clock turn through when it moves from 1 to 10 on the face of the clock ?
Q4. Which direction will you face if you start facing east and make $\frac{1}{2}$ of a revolution clockwise ?
Q5. Estimate and write the value of each of the angles drawn here.



Q6. Where will the minute hand of a clock stop on the face of the clock will stop if it starts from 12 and makes $\frac{3}{4}$ of a revolution clockwise.
Q7. Where will a minute hand of a clock stop if it starts from 7 and turns through 2 right angles ?
Q8. How many right angles do you make if you start facing north and turn anticlockwise to east ?
Q9.In which direction will you face if you start facing east and turn through 3 right angles anti-clockwise ?
Q10. Identify and write which type of triangles are the following on the basis of
(i) measure of angles (ii) measure of sides.





3 MARKS QUESTIONS

Q1. If B is the mid point of $\overline{AC}$ and C is the mid-point of $\overline{BD}$ where A, B, C *and* D are collinear, show that $\overline{AB} = \overline{CD}$
Q2. . Using ruler and protractor . draw rough sketch of an acute angle and a right angle. Define them.
Q3. Define an obtuse angle and a reflex angle and draw the rough sketch of each angle .
Q4. What are the three methods of comparison of two line segments ? Which one is the most accurate method ? ?
Q5. With a diagram find the time shown by the hands of a clock when the minute hands makes 3/4 of a revolution clockwise.

Q6. What fraction of a clockwise revolution does the hour hand of a clock turn through when it goes from (i) 4 to 7 (ii) 12 to 9 (iii) 6 to 3

Q7. Where will the minute hand of a clock stop if it

(i) starts at 12 and makes $\frac{1}{2}$ of a revolution, clockwise ?

(ii) starts at 5 and makes $\frac{3}{4}$ of a revolution, clockwise ? Show mathematical calculation also.

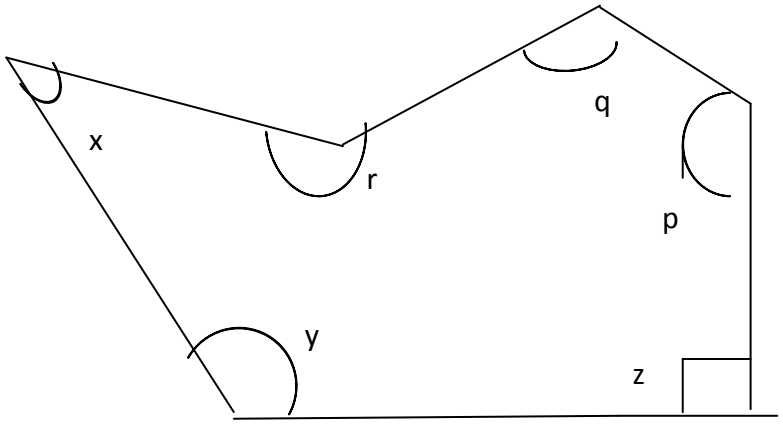
Q8. State true or false :

(a) The measure of an acute angle is less than 90^0

(b) The measure of an obtuse angle is greater than 180^0 but less than 360^0

(c) The measure of a straight angle is equal to 180^0

Q9. In the adjoining figure , state with observation which of the angles marked with small letters are acute, obtuse, reflex or right angle.



Q10. Give at least five examples of models from observation in our daily activity which show two mutually perpendicular lines.

Q11. Give examples of a cylinder , a sphere and a cone from common observations. Draw rough sketches to show the shapes of a cylinder and a cone. Also label the curved face and the plane face of these shapes.

Q12. State whether the following statements are true or false . Write the correct statement for the false statement

(a) A rectangle is a regular quadrilateral.

(b) Every parallelogram is a rhombus but every rhombus is not a parallelogram.

(c) Every square is a rectangle but every rectangle is not a square .

(d) Each angle of an isosceles triangle is 60^0.

Q13. Obtain a triangle by joining any three alternate vertices of a regular hexagon. Label the triangle and mention which type of triangle it is .

4 MARKS QUESTIONS

Q 1. Find the measure of the angle between the hour hand and the minute hand of a clock in the following two figures

(i) A clock showing time 10 O'clock (to be drawn)

(ii) A clock showing time 5 O'clock. (to be drawn)

Q2. What are perpendicular lines ? Draw two perpendicular lines and label them.

Q3. Define the perpendicular bisector of a line segment and draw suitable figure to represent the perpendicular bisector .

Q4. Define an Isosceles triangle and an equilateral triangle . Draw appropriate figures of these two types of triangles.

Q5. Name the three types of triangles on the basis of measure of their angles. Define each of them with figure.

Q6. Fill in the blanks with correct information based on elementary geometrical shapes:

(a) *If all the angles in a triangle are equal then its_____ are also equal.*

(b) If all the _____ of a triangle are equal , then its angles are also equal

(c) the sum of the three angles of a triangle is equal to _____

(d) If one angle of a triangle is 90^0 *, each of the other angles is _____ angle.*

(e) The sum of the lengths of any two sides of a triangle _____greater than the third side

(f) A quarter revolution of a ray about a fixed point is equal to _____ degrees.

(g) The diagonals of a rectangle or a square are _____

(h) The diagonals of a rhombus are not equal but they _____ each other at right angles.

Q7. Define (a) a trapezium and (b) a parallelogram. Draw rough sketches of a trapezium and a parallelogram. Write any four properties of a parallelogram .

Q8. Draw rough sketches of (a) rhombus (b) a square . Also write two properties of each.

Q9. Draw the rough sketch of the following polygons:

(a) An irregular pentagon (b) A regular hexagon (c) a quadrilateral. Also label the sketches and draw all the possible diagonals in each case.

Q10. Draw the shapes of (a) a cuboid (b) a cube and (c) a triangular prism. Also write the number of faces, edges and vertices of these shapes.

Q11. Name the type of the triangles having following informations :

(i) ΔABC *with* $AB = 8\ cm\ , AC = 7\ cm$ *and* $BC = 5.5\ cm$

(ii) ΔPQR *with* $PQ = RP = 5\ cm$ *and* $QR = 7.3\ cm.$

(iii) ΔDEF *with* $\angle D = 90^0$

(iv) ΔXYZ *with* $\angle Y = 90^0$ *and* $XY = YZ.$

VALUE BASED QUESTIONS (3 marks)

Q1. Nisha saves 1/3 of her salary, she spends ½ of it and gives the remaining for charity. Find the fraction she gives for charity? Mention the value you depict from this.

Q2. Mira's school is $\frac{8}{10}$ km away from her house. Daily she walks a distance and then takes a bus to travel $\frac{1}{2}$ km to reach the school. How far does she walk? Why does she walk for some distance daily ?

CHAPTER SEVEN: *FRACTIONS*

1 MARK QUESTIONS

Q1. Write fraction for starred parts in each of the figure:

****		
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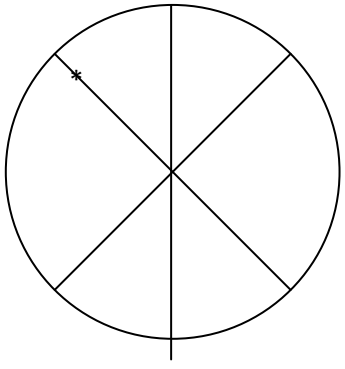
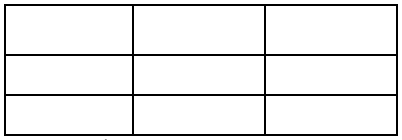
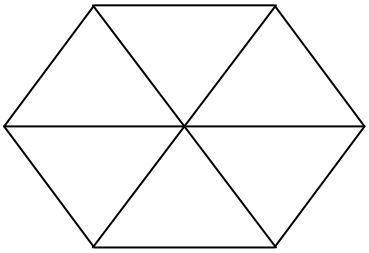


Q2. Shade the parts of the following figures according to the given fractions :



$\frac{1}{3}$



$\frac{1}{3}$

Q3. The numerator of a fraction is 5 and the denominator is 7 more than the numerator. Write the fraction.

Q4. Amina has to stitch 35 dresses. So far, she has stitched 21 dresses. What fraction of dresses has she stitched ?

Q5. What fraction of a day is 6 hours?

Q6. Find the equivalent fraction of $\frac{15}{35}$ with denominator 7.

Q7. . Find the equivalent fraction of $\frac{2}{9}$ with numerator 12.

Q8. Find the sum of $\frac{3}{4}$ and $\frac{2}{5}$.

Q9. Fill in the missing fraction : (i) $\square + \frac{5}{27} = \frac{12}{27}$ (ii) $\square - \frac{5}{13} = \frac{3}{13}$

Q10. Evaluate : $\frac{4}{7}$ *of* 182.

2 MARKS QUESTIONS

Q1. Show the fractions $\frac{1}{8}, \frac{3}{8}, \frac{5}{8}, and\ \frac{7}{8}$ on a number line.

Q2. Convert each of the fractions into mixed fractions : (i) $\frac{20}{3}$ (ii) $\frac{41}{7}$

Q3. Convert each of the following as improper fractions : (i) $13\frac{7}{9}$ (ii) $11\frac{2}{5}$

Q4. Replace $\square$ in each of the following by correct number to make equivalent fraction:

(i) $\frac{7}{18} = \frac{42}{\square}$ (ii) $\frac{4}{\square} = \frac{12}{15}$ (iii) $\frac{\square}{11} = \frac{70}{154}$ (iv) $\frac{45}{60} = \frac{3}{\square}$

Q5. Check whether the given pairs of fractions are equivalent or not :

(i) $\frac{5}{9}, \frac{15}{27}$ (ii) $\frac{21}{52} = \frac{7}{13}$

Q6. Reduce to the lowest term : $\frac{48}{60}$

Q7. Find the fraction which should be subtracted from 5 to get $1\frac{5}{13}$

Q8. Reduce to the lowest term : $\frac{276}{115}$

Q9. Compare the fractions : $\frac{9}{10}$ *and* $\frac{13}{15}$

Q10. Simplify : $2\frac{5}{7} - 3\frac{3}{7} + 5\frac{4}{7}$

Q11. Simplify : $2\frac{1}{3} + 3\frac{5}{6}$

Q12. Evaluate the product : $\frac{4}{5}\ X\ 7\frac{3}{16}$

Q13. Evaluate : $5\frac{1}{4} \div \frac{7}{8}$

3 MARKS QUESTIONS

Q1. Convert the fractions $\frac{4}{5}, \frac{7}{15}, \frac{31}{20}$ into equivalent like fractions.

Q2. Select the proper, improper and mixed fractions from the following ;

(i) $\frac{17}{12}$ (ii) $\frac{222}{333}$ (iii) $\frac{35}{26}$ (iv) $12\frac{5}{7}$ (v) $\frac{19}{23}$ (vi) $20\frac{11}{20}$

Q3. Simplify : $2\frac{3}{5} + 1\frac{7}{10} - 3\frac{2}{15}$

Q4. Convert the fractions $\frac{3}{4}, \frac{5}{6}, \frac{7}{8}$ into equivalent like fractions and then arrange them in ascending order.

Q5. Simplify : $3 - 1\frac{1}{6} - \frac{7}{15}$

Q6. Javed was given $\frac{5}{7}$ of a basket of oranges. What fraction of oranges was left in the basket ? (Solve the problem with statement)

Q7. Naina was given $1\frac{1}{2}$ piece of cake and Najma was given $1\frac{1}{3}$ piece of cake. Find the total amount of cake that was given to both of them .

Q8. Md. Arif exercised for 3/6 of an hour, while Nikhil exercised for 3/4 of an hour and Nancy exercised for 4/5 of an hour in the morning . Find who exercised the most and who exercised the least ?

4 MARKS QUESTIONS

Q1. Arrange the fractions in descending order : $\frac{2}{3}, \frac{5}{6}, \frac{7}{8}, \frac{5}{12}$

Q2. Work out to find the greater fraction between the two and replace by the appropriate sign $'<, = or >'$ between the given pair of fractions:

(i) $\frac{9}{14}$ ◯ $\frac{10}{21}$ (ii) $\frac{3}{16}$ ◯ $\frac{11}{24}$ (iii) $\frac{19}{25}$ ◯ $\frac{57}{75}$

Q3. Arrange in ascending order : $\frac{1}{4}, \frac{13}{20}, \frac{11}{15}$.

Q4. One day a labourer earned $R_s\ 58\frac{1}{2}$. Out of this money, he spent $R_s\ 184\frac{3}{}$ on food and $R_s\ 6\frac{1}{5}$ on other needs. How much is left with him ?

Q5. . Jaidev goes for a morning walk around a rectangular park of length $4\frac{4}{5}\ m\ and\ breadth\ 1\frac{1}{5}\ m$ every day. How much distance does he walk every day ?

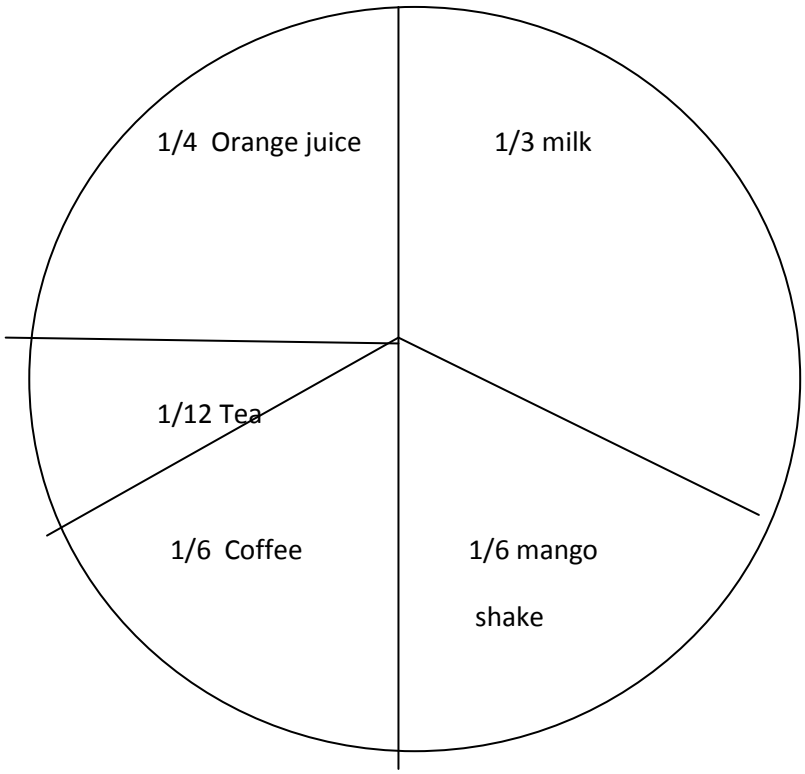
Q6. Shivani read 25 pages of a book containing 100 pages. Nandini read $\frac{2}{5}$ of the same book. Who read less and by how much ?

Q7. . A student was given 60 sums of mathematics to solve during summer holidays of 30 days . In the first 10 days he solved $\frac{1}{5}$ th part of the homework, in the second 10 days he solved $\frac{3}{5}$ th part of the homework and remaining he solved in the next 10 days of the holidays . Find how many sums did the student solve during the last 10 days to complete the homework.

Q8. Nidhi's mother went to market for buying grocery items . She bought $2\frac{1}{5}$ Kg of pulses, $3\frac{2}{3}$ kg of oil and $2\frac{1}{10}$ kg of sugar . Find the total quantity of the things bought by Nidhi's mother.

Q9. The weights of three packets are $2\frac{3}{4}$kg, $3\frac{1}{3}$ kg and $5\frac{2}{5}$ kg . Find the total weight of all the three packets..

. Q10. The adjoining figure represents the preferences of the students during breakfast in a hostel mess. If the total number of students in the mess is 540, then with reference to the given figure , answer the following questions :



Q11. I bought fruits worth Rs $27\frac{3}{4}$ and vegetables worth Rs $10\frac{1}{2}$. If I gave a fifty-rupee note to the shopkeeper, how much will I get back?

Q12. Draw a rough sketch of a regular hexagon. Connecting three of its vertices, draw
(i) an isosceles triangle (ii) an equilateral triangle (iii) a right angled triangle.

CHAPTER EIGHT: **DECIMALS**

1 MARK QUESTIONS

Q1.Write the decimal number 803.207 in the expanded form.

Q2. Between which two whole number s on the number line do the following decimal numbers lie ? (i) 4.3 (ii) 7.9

Q3. Write the decimal number 123.7 in the expanded form.

Q4. Write the number name as decimals : Two tens and nine tenths.

Q5. Write the number name as decimal : Seven and fifteen thousandths

Q6. Convert the decimal numbers 0.375, 75.26, 9.3 into like decimal numbers.

Q7. Write the fraction numbers as decimal numbers : (i) $\frac{58301}{1000}$ (ii) $\frac{3}{100}$

Q8. In the pair of decimal numbers state which decimal number is greater :
57.832 and 57.8231

Q9. Work out : 19.01 – 12.234.

Q10. What number added to 0.756 gives 1

Q11. 2 km 7m is equal to (i) 2.7 km (ii) 2.07 km (iii) 2.007 km (iv) 207 m
(choose the correct answer)

Q12. Express as cm using decimal: 13 cm 3 mm

Q13. Express as kg using decimal: 37 g

3 MARKS QUESTIONS

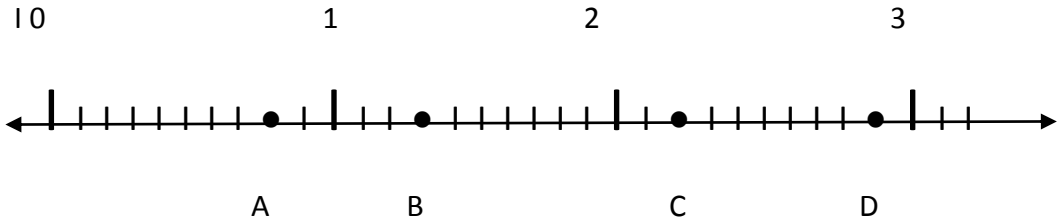
Q1. Write the number 500+9+ 4/10 + 3/1000 in the decimal notation.

Q2. Write the number 600 + 7 + 3/100 + 6/1000 in the decimal form.

Q3. Show the following decimal numbers on the number line:

(i) 1.9 (ii) 2.5

Q4. Write the decimal numbers represented by the points A, B, C and D on the given number line



Q5. Write the following numbers as decimal numbers:

(i) $27\frac{7}{10}$ (ii) $13\frac{2}{100}$

Q6. Express the following fractions as decimal numbers :

(i) $\frac{17}{125}$ (ii) $5\frac{1}{40}$

Q7. Write the following decimal numbers in expanded form showing the whole number part and the fraction part: (i) 318.105 (ii) 12.04

Q8. Add: 8.79, 23.001, 5.41, 0.875

Q9. Workout : $7.04 - 2.19 - 0.456 - 3.5$.

4 MARKS QUESTIONS

Q1.Write the decimal number 5203.075 in the place value table.

Q2. Write the following decimals as fractions in the lowest term :

(i) 0.125 (ii) 0.225

Q3. Convert the following decimal numbers into mixed fractions:

(i) 7.025 (ii) 3.25

Q4. Write the following fractions as decimals by converting the denominator into multiple of ten :

(i) $\frac{112}{125}$ (ii) $7\frac{3}{40}$

Q5. Sunita travelled 15 km 268 m by bus, 7 km 7 m by car and 500 m on foot in order to reach her school. How far is her school from her residence ?

Q6. Rahul bought 4 kg 90 g apples, 2 kg 60 g grapes, 5 kg 300 g mangoes and 3 kg oranges from the market . Find the total weight of all the fruits he bought.

Q7. Arrange the following decimal numbers in ascending order :

(i) 6.45, 6.045, 6.405, 6.504, (ii) 7.503, 7.53, 7.035, 7.531

Q8. If the school bags of Ankita and Kirti weigh 5.2 Kg and 4.832 Kg respectively, find

(i) The total weight

(ii) The difference in weight in bags.