પુખ્ના International School
Shree Swaminarayan Gurukul, Zundal

ASSIGNMENT OF SUMMATIVE 2 (2020-21)

CLASS-V1 **SUB-MATHS**

Multiple Choice Questions: [1 MARK QUESTION]

Chap 7

1. Number of element of a triangle is
   a. 6 b.5 c. 4 d. 3
2. Two figures are said to be congruent, if they have exactly the same
   a. Area b. Perimeter c. Shape and size d. length and width
3. Two Triangles are congruent, if two angles and the side included between them in one of the triangle are equal to the two angle and the side included them of the Other triangle. This is known as the
   a.RHS congruence criterion c. ASA congruence criterion
   c. SAS congruence criterion d. AAA congruence criterion
4. By which of the following criterion, the two triangle cannot be proved congruent?
   a. AAA rule b. SSS rule c. SAS rule d. ASA rule
5. Which congruence Criterion do you use in the following?
   a. ASA rule b. SSS rule c. RHS rule d. All

Chap 8

1. Which of the following is the ratio of 3 kilometres to 300 metre?
   a. 10:1 b. 1:10 c. 100:1 d. 1:100
2. If 5: x = 3:4, then what will be the value of x?
   a. 3/20 b. 15/4 c. 20/3 d. 4/15
3. The ratio of Fatima's income to her saving is 4:1. The percentage of money saved by her is
   a. 20 % b. 25% c.40% d. 80%
4. The interest on 30000 for 3 years at the rate of 15% per annum is.
   a. Rs 4500 b. Rs 9000 c. Rs 18000 d. Rs 13500
5. The sum which will earn a simple interest of rupees 126 in 2 years at 14% per annum is
   a. Rs 161.28 b. Rs 450 c. Rs 500 d. None

Chap – 9

Fore question number 2 to 5 the marks obtained by 10 student in science test are given below:
53, 36, 95, 73, 62, 42, 25, 78, 75, 62
Answer the following questions that are related to the given data

1. The maximum marks obtained by the student is
   a. 60 b.95 c. 78 d. 25
2. The minimum marks obtained by the student is

a. 42 b. 36 c. 25 d. 73

3. How many students got the same marks?

a. 3 b. 4 c. 2 d. None

4. How many students got 78 are more marks?

a. 2 b. 3 c. 4 d. 1

5. How many student got marks below 62?

a. 3 b. 4 c. 5 d. 2

Chap 10.

1. The perimeter of a triangle whose sides are 1.2cm, 3.4 cm and 1.7 cm, is

a. 6.3cm b. 6.2cm c. 6.5cm d. 6.4cm

2. The perimeter of a rectangle, whose sides are 130 cm and 70 cm, is

a. 20m b. 4m c. 0,2m d. 2m 30cm

3. The side of a square is 10 centimetre. How many times wills the new perimeter becomes, if the side of the square is doubled?

a. 2 times b. 4 times c. 6 times d. 8 times

4. The perimeter of an equilateral triangle of side 5 cm each is

a. $\frac{\sqrt{3}}{4}$ X 15 cm b. $\frac{\sqrt{3}}{4}$ X 10 cm c. 10 cm d. 15 cm

5. Cost of fencing of a rectangular Park of length 200 and width 150 at the rate of rupees 25per meter is

a. Rs 17500 b. Rs 1750 c. Rs 1705 d. Rs 10750

Chap 11

1. Give, expression for P divided by 15 is

a. P -15 b. P + 15 c. $\frac{p}{15}$ d. P X15

2. Which out of the following are expression which numbers only?

a. 2x +5 b. 3x – 5 c. 3(11 – 5) + 5 x 2 d. 3Y + 5

3. Take meena's present age to be y year, what is his father's age if he is double of her age?

a. y +2 b. y -2 c, y / 2 d. 2y

4. If each match box contains 50 matchstick, the number of the matchsticks required to fill n such boxes is

a. 50 +n b. 50 n c. 50 / n d. 50 - n

5. Which of the following represents 6 X x ?

a. 6x b. $\frac{x}{6}$ c. 6 + x d. 6 – x

Chap 12

1. The ratio of 6 books to 30 books is

a. 5 : 1 b. 2 : 3 c. 1 : 5 d. 2 : 5

2. If 66: 72:: x : 96, then x is equal to

a. 108 b. 78 c. 88 d. 48

3. In a box, the ratio of red marbles to blue marbles is 7: 4. Which of the following could be the total number of marbles?

a. 18 b. 10 c. 21 d. 22

4. The ratio of the number of sides of a triangle to the number edges of a cube is

a. 4:1 b. 1:4 c. 1:3 d. 2:3

5. If 7: 30: x: 15, then x is equal to

a. 7/2 b. 2/7 c. 6 d. 7

Fill the blank: **[1 MARK QUESTION]**

Chap - 7

1. Two line segments are congruent, if _____
   Answer: they have same length
2. Among two congruent angles, one has a measure of 70^0, the measure of the Other angle is _____
   Answer: 70^0
3. When we write ∠ A = ∠ B ,we actually means _____
   Answer: m∠*A* = m ∠*B*
4. Two squares are congruent, they have same _____
   Answer: length
5. Two triangles are said to be congruent, if pair of corresponding side and the corresponding _____ are equal.
   Answer: angle

Chap – 8

1. $18\frac{3}{4}$ % = _____
   Answer: 3:16
2. 30% of 300 is=_____
   Answer: 90
3. A _____ with its denominator 100 is called a percent.
   Answer: fraction
4. 15 kg is _____ percent of 50 kg.
   Answer: 30%
5. In a class of 50 students, 8% were absent on one day. The number of students present on that day was _____
   Answer: 46

Chap 9

1. A _____ is a collection of numbers gathered to give some meaningful information, (
2. The data can be arranged in a tabular for using _____ marks
3. A _____ represent data through picture of objects,
4. Representation of data in form of picture is called _____
5. In bar graph, width of rectangle is always _____

Chap 10

1. The region enclosed by a plane closed figure is called its _____
2. Area of a rectangle with length 5 cm and breadth 3cm is _____
3. Diagonal of a square is _____ side.
4. Standard unit of area is _____
5. The area of a playground is 1190 metre square. If its length is 35 metre, the width is _____

Chap 11

1. The variable can take _____ values.
2. The values of the variable in an equation which satisfies the equation is called a _____ to the equations.
3. An _____ has two sides, left hand side and right hand side, between them is the equal sign
4. The LHS of an _____ is equal to its RHS only for a definite value of the variable in the equations.
5. The distance (in km) travel in h hours at a constant speed of 40 km per hour is _____

Chap 12

1. The cost of 4 pens is Rs 40. The cost of 11 pens is _____
2. The weight of 15 boxes is 60 kg. The weight of 12 boxes is _____
3. Maya can walk 6 km in 2 hour. In 3 hour she can walk _____
4. To find the ratio of two quantities, they must be expressed in _____ unit.
5. Ratio of 5 paise to 25 paise is the same as the ratio of 20 paise to _____

Tell whether the statement is true or false:[1 MARK QUESTION]

Chap - 7

1. If two Triangles are equal in area, when they will be congruent F
2. If the hypotenuse of another right angle triangle, then the Triangles are congruent. F
3. If three angles of a triangle are equal to the corresponding angles of another triangle , then the Triangles are congruent T
4. If two legs of a right angle triangle are equal to two legs of another right angle triangle, then the right angled Triangles are congruent. True
5. If two sides and one included angle of a triangle are equal to the two sides and one included angle of another Triangle, then the two Triangles are congruent. True

Chap – 8

1. 65% is equal to 5 / 3. .F
2. When an improper fraction is converted into percentage, Then the answer can also be less than 100 .F
3. The interest on rupees 350 at 5% per annum for 73 days is rupees 35 . F
4. Out of 600 students of a school, 126 go for a picnic. The percentage of students that did not go for the picnic is 75%. False
5. By selling a book for rupees 50, A shopkeeper suffered a loss of 10%. When the cost price of book is rupees 60. False

Chap -9

1. To represent the population of a different towns using bar graph, it is Convenient to take one unit length to represent one person.
2. Pictograph and bar graph are pictorial representation of numerical data.
3. An observation occurring five times in the data is recorded as iiiii, using Tally marks.
4. In a bar graph, the width Of bars may be an equal.
5. In a bar graph, each bar represents only one value of the numerical data.

Chap – 10

1. The perimeter of a triangle whose sides are 1.2cm, 3.4 cm and 1.7 cm, is\
2. The perimeter of a rectangle, whose sides are 130 cm and 70 cm is
3. The side of a square is 10 centimetre. How many times will the new perimeter becomes, if the side of the square is doubled?
4. The perimeter of an equilateral triangle of side 5 cm each is
5. Cost of fencing of a rectangular Park of length 200 and width 150 at the rate of rupees 25per meter is

Chap-11

1. Total distance travelled by a car in x h at a constant speed of y km/h,is x h km.
2. The perimeter of a square if each of its side is X units, is 4x units.
3. 2 is the solution of the equation x+ 4 = 5.
4. The equation 2x + 4 = 6 and 3x + 9 = 12 have the same solution.
5. In The equation 7k – 7 = 7, the variable is 7.

Chap - 12

1. 4:7 = 20:35
2. 15m: 40-m = 40cm: 80cm
3. The ratio of 20kg to 200kg is 1:10.
4. The ratio 8:40 is in its lowest form.
5. The ratio of 10kg to 100kg is 1:10.

Solve: Each carry one mark: [1 MARK QUESTION]

Chap – 7

1. Give any two real life examples for congruent shapes.
Answer: Same brand soap and candy
2. Δ PQR ≅ ΔBCA. Write the part of ΔBCA that corresponding to $\angle Q$
Answer: $\angle C$
3. What is the side included between the $\angle A$ and $\angle B$ of ΔABC?
Answer: side AB
4. Which angle is included between the sides DE and EF of ΔDEF?
Answer: $\angle E$
5.Δ PQR ≅ ΔBCA. Write the part of ΔBCA that corresponding to side QR
Answer: side CA

Chap – 8

1. Find ratio of 4 m to 400 cm.
2. Find the ratio of 9 m to 27 cm
3. Convert the given fractional numbers to percents.
(a) 1/8 (b) 5/4 (c) 3/40
4. Find: (a) 15% of 250 (b) 75% of 1 kg (c) 1% of 1 hour
5. Find Loss or profit
(a) a radio bought for Rs 12000 and sold at Rs 13500.

Chap-9

1. What is the range of data?
Ans: The difference of maximum and minimum value of given data is called the range of data.

2. Find the range of data 9, 7, 2,6,1,3,4,12.

Ans: Range of data = 12 – 1 = 11

3. What kind of data is collected directly from a source?

Ans: Primary of data is collected directly from a source.

4. Find the range of data 8, 7, 5, 12, 17, 21, 4, 16.

Ans: Range of data = 21 – 4 = 17.

5. What type of data is collected from newspaper?

Ans: Secondary data is collected from newspaper.

Chap -10

1. Find the perimeter of a triangle, whose three sides are 5cm, 6cm and 7cm, respectively?

Ans: perimeter of a triangle = 5cm + 6cm +7cm =18cm.

2.Find the perimeter of an equilateral triangle, whose each side is 5cm.

Ans : perimeter of an equilateral triangle = 3 X side = 3 X 5cm = 15cm.

3. Find the area of a rectangle, whose length and width are 10cm and 6cm, respectively?

Ans: Area of a rectangle = l X b = 10cm X 6cm = 60 sq.cm.

4. Find the side of an equilateral triangle, if its perimeter is 30cm.

Ans: Side = $\frac{perimetre}{3} = \frac{30cm}{3} = 10\text{cm}.$

5. If the area of square is 36cm^2, then find the side of square.

Ans: Side = $\sqrt{36ccm^2}$ = 6cm.

Chap-11

Write the following using numbers, literal and basic arithmetic operations.

1. The sum of the numbers 5 and x.

Ans: 5 X x = 5x.

2. 4 less than x.

Ans: (x – 4)

3. 5 more than the number y.

Ans: y + 5

4. Two fifth of a number Z.

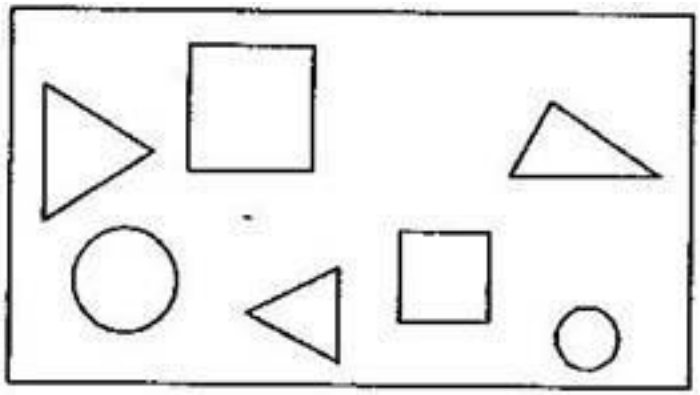
Ans: $\frac{2}{5}$ Z

5. The number 5 times the product of x and y.

Ans: 5 (x + y).

Chap-12

1. See the figure and find the ratio of



(a) The number of triangles to the number of circles in side the rectangle.

(b) The number of squares to all the figures in side the rectangle.

(c) The number of circles to all the figures inside the rectangle.

Answer:(a)Ratioofnumberoftriangletothatofcircles= $\frac{3}{2}$ = 3 :2

(b) Ratioofnumberofsquarestoallfigures= $\frac{2}{7}$ = 2 :7

(c) Ratio of number of circles to allfigures= $\frac{2}{7}$ = 2 :7

2.Find the ratio of the following: (a) 81 to 108

(b) 98 to63

(c) 33 km to 121km

(d) 30 minutes to 45minutes

Answer: (a) Ratio of 81 to 108 = 27 x 3/27 x 4 = 3 : 4

(b) Ratioof98to63= $\frac{14\ x\ 7}{7\ x\ 9}$=14:9

(c) Ratioof33kmto121km= $\frac{3\ X\ 11}{11\ X\ 11}$=3:11

(d) Ratioof30minutesto45minutes=$\frac{15\ X\ 2}{15\ X\ 3}$=2:3

3. Determine the following are in proportion:

(a) 15, 45, 40, 120

(b) 33, 121, 9,96

(c) 24, 28, 36,48

(d) 32, 48, 70, 210

Answer: (a) 15: 45 = 1: 3 and 40 : 120 = 1 : 3

Since 15 : 45 = 40 : 120

Therefore 15, 45, 40, 120 are in proportion.

(b) 33 : 121 = 3 : 11 and 9 : 96 = 3 : 32

Since$33:121 \neq 9:96$

Therefore, 33, 121, 9, 96 are not in proportion.

(c) 24 : 28 = 6 : 7 and 36 : 48 = 3 : 4

Since 24:28 $\neq$ 36 :48

Therefore 24, 28, 36, 48 are not in proportion.

(d) 32 : 48 = 2 : 3 and 70 : 210 = 1 : 3

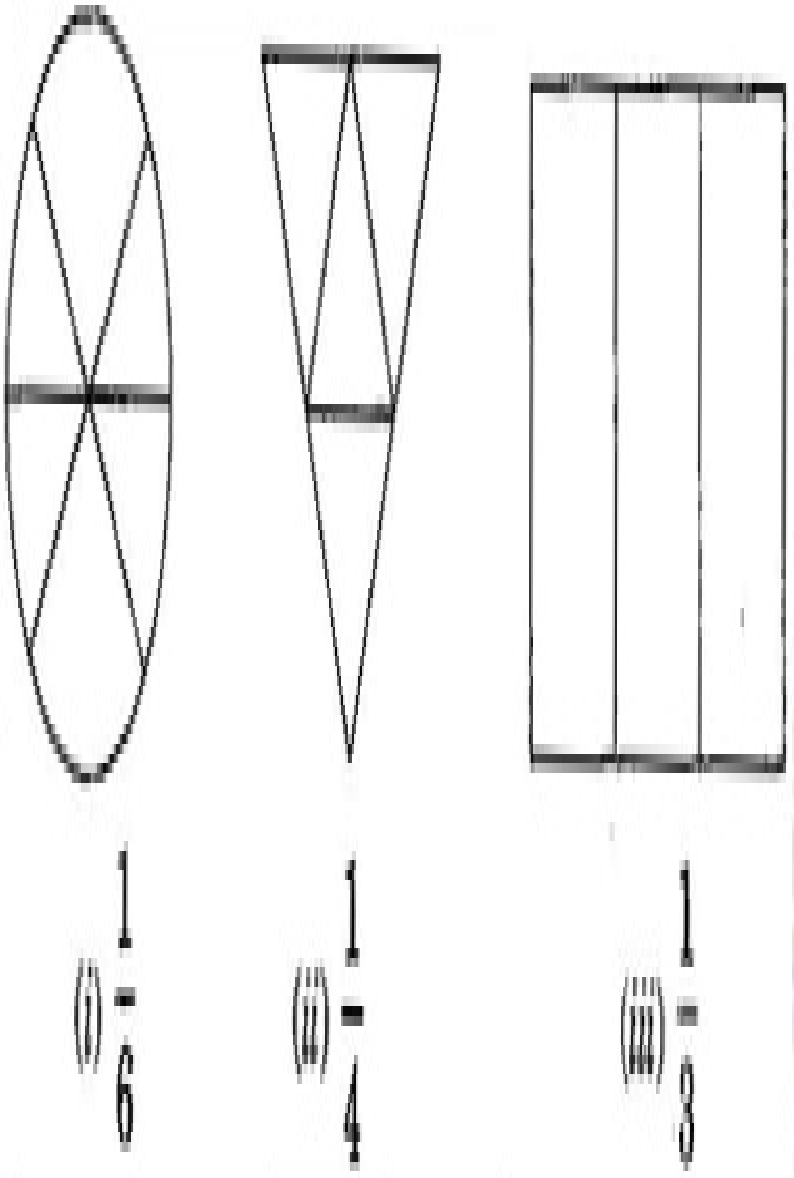
Since $32:48 \neq 70:210$

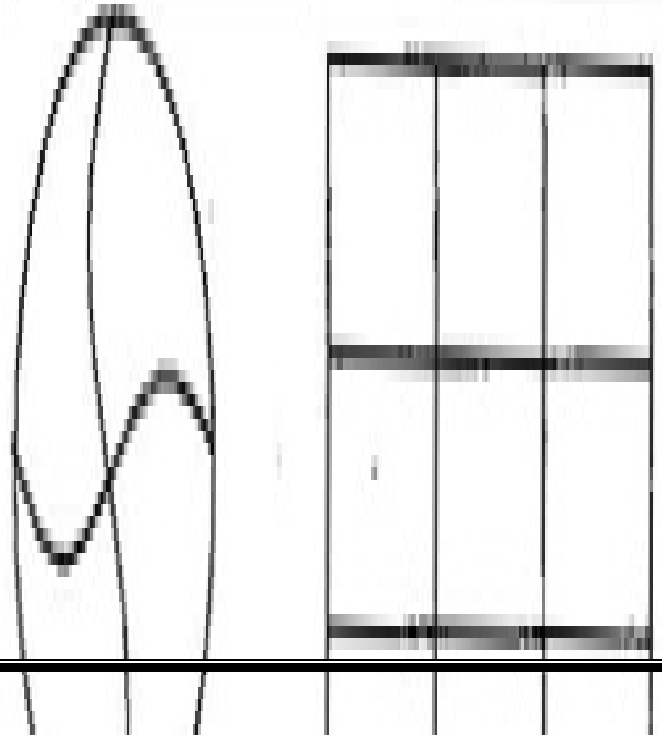
Therefore 32, 48, 70, 210 are not in proportion.

Solve: Each carry two marks

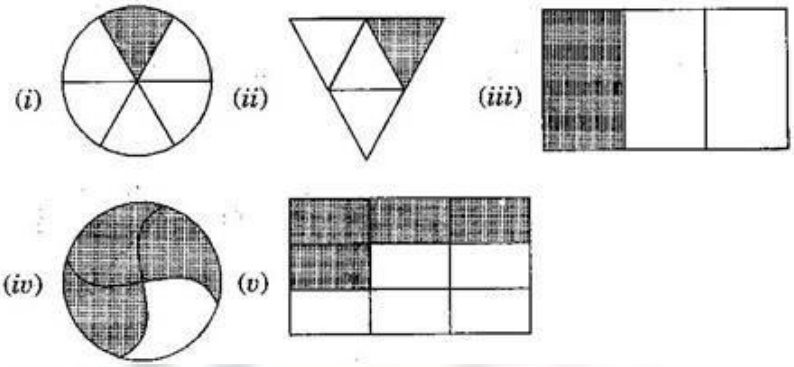
Chap – 7

1. Color the part according to the given fraction:


1
6
1
4
1
3



Answer:



2.Kanchandyesdresses.Shehadtodye30dresses.Shehassofarfinished20 dresses.Whatfractionofdresseshasshefinished?

Answer: Totalnumberofdressestodye=30 Work

completed =20

Fraction of completed work = $= \frac{2}{3}$

3. Writethenaturalnumbersfrom2to12.Whatfractionofthemareprime numbers?

Answer: Natural numbers from 2 to 12: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Primenumbersfrom2to12:2,3,5,7,11

Hence,fractionofprimenumbers=

4.Writethenaturalnumbersfrom102to113.Whatfractionofthemisprime number?
Answer: Natural numbers from 102 to 113: 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113

Primenumbersfrom102to113:103,107,109,113

Hencefractionofprimenumbers= = $\frac{1}{3}$

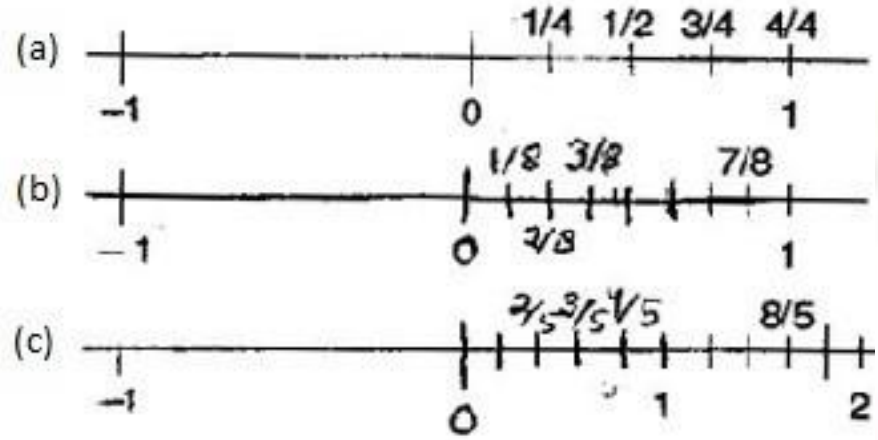
5. Drawnumberlinesandlocatethepointsonthem:

(a) $\frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{4}{4}$

(b) $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{7}{8}$

(c) $\frac{2}{5}, \frac{3}{5}, \frac{8}{5}, \frac{4}{5}$

Answer:



CHAP -8

1.Writethefollowingdecimalsintheplacevaluetable:

(a)19.4 (b) 0.3 (c) 10.6 (d)205.9

Answer: (a)

(b

©

(d)

2.Write each of the following as decimals:

(a) seven-tenths

(b) Two tens andnine-tenths

(c) Fourteen pointsix

(d) One hundred andtwo-ones

(e) Six hundred pointeight

Answer: (a) seven-tenths = 7tenths= =0.7

(b) 2 tens and 9-tenths = 2 x10+ = 20 + 0.9=20.9

(c) Fourteen point six =14.6

(d) Onehundredand2-ones=100+2x1=100+2=102

(e) Sixhundredpointeight=600.8

3.Write the following decimals as fraction. Reduce the fractions to lowest terms:

(a)0.6

(b)2.5

(c)1.0

(d) 3.8

Answer: (a) 0.6 = 6/10 = 3/5

(b) 2.5 = 25/10 = 5/2

(c)1.0= =1

(d) 3.8 = =

4. Writeeachofthefollowingdecimalsinwords:

(a)0.03

(b)1.20

(c) 108.56

(d)10.07

(e)0.032

(f) 5.008

Answer: (a) Zero point zero three

(b) One point twozero

(c) Onehundredandeightpointfivesix

(d) Ten point zeroseven

(e) Zeropointzerothreetwo

(f) Fivepointzerozeroeight

Chap -9

1. Inamathematicstestthefollowingmarkswereobtainedby40students.

Arrangethesemarksinatableusingtallymarks.

8, 1, 3, 7, 6, 5, 4, 4, 2, 4, 9, 5, 3, 7, 1, 6, 5, 2, 7, 7, 3, 8, 4, 2, 8, 9, 5, 8, 6, 7, 4, 5, 6, 9, 6, 4, 4, 6, 6

(a) Findhowmanystudentsobtainedmarksequaltoormorethan7?

(b) Howmanystudentsobtainedmarksbelow4?

Answer:

(a) Twelve students

(b) Eight students

2.Following is the choice of sweets of 30 students of Class VI.

Ladoo,Barfi,Ladoo,jalebi,Ladoo,Rashulla,Jalebi,Ladoo,Barfi,Rasgulla,Ladoo,Jalebi, Jalebi,Rashulla,Ladoo,Rasgulla,Jalebi,Ladoo,Rasgulla,Ladoo,Ladoo,Barfi,Rasgulla, Rasgulla, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo

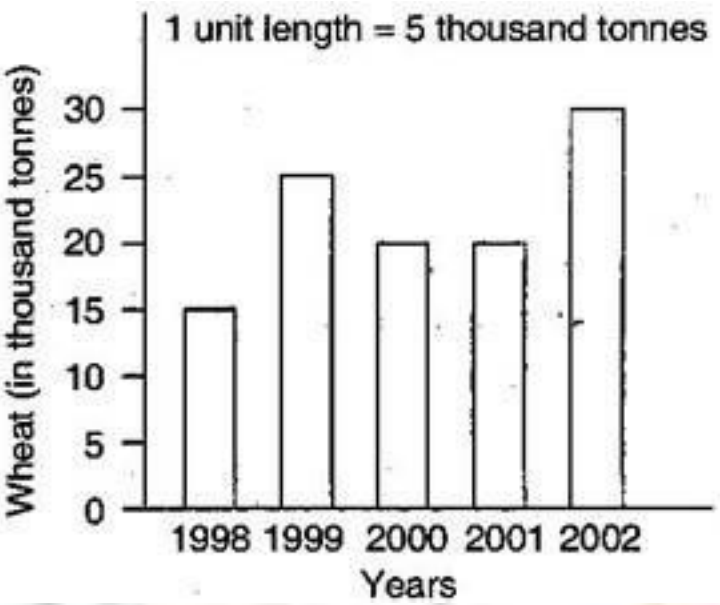
(a) Arrangethenamesofsweetsinatableusingtallymarks.
(b) Whichsweetispreferredbymostofthestudents?

Answer:

(b) Ladoo. Because 11 students prefer to eat.

3. Thebargraphgivenbelowshowstheamountofwheatpurchasedby governmentduringtheyear1998–

2002.



Readthebargraphandwritedownyourobservations. (a)In which

year was the wheat productionmaximum?

(b)Inwhichyearwasthewheatproductionminimum?

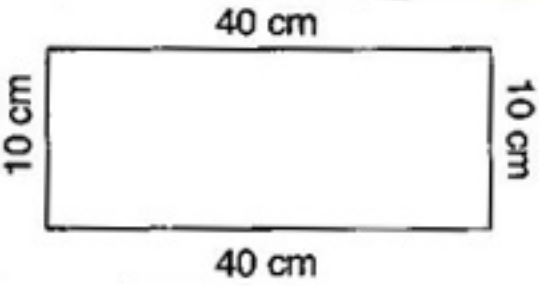
Answer: (a) In 2002, production of wheat was maximum.

(b) In 1998, production of wheat was minimum.

Chap 10

1.Thelidofarectangularboxofsides40cmby10cmissealedallroundwith tape.Whatisthelengthofthetaperequired?

Answer: Total length of tape required = Perimeter of rectangle



= 2 (length + breadth)

= 2 (40 + 10)

= 2 x 50

= 100 cm = 1 m

Thus, the total length of tape required is 100 cm or 1 m.

2.Atable-topmeasures2m25cmby1m50cm.Whatistheperimeterofthe table-top?

Answer: Lengthoftabletop=2m25cm=2.25m

Breadthoftabletop=1m50cm=1.50m

Perimeter of table top = 2 x (length + breadth)

= 2 x (2.25 + 1.50)

= 2 x 3.75 = 7.50 m

Thus, perimeter of table top is 7.5 m.

3. Whatisthelengthofthewoodenstriprequiredtoframeaphotographof length32cmandbreadth21cmrespectively?

Answer: Lengthofwoodenstrip=Perimeterofphotograph

Perimeterofphotograph=2x(length+breadth)

= 2 (32 + 21)

= 2 x 53 cm = 106 cm

Thus, the length of the wooden strip required is 106 cm.

4. Arectangularpieceoflandmeasures0.7kmby0.5km.Eachsideistobe fencedwith4rowsofwires.Whatisthelengthofthewireneeded?

Answer: Sincethe4rowsofwiresareneeded.Thereforethetotallengthofwiresisequalto 4timestheperimeterofrectangle.

Perimeter of rectangular piece of land = 2 x (length + breadth)

= 2 x (0.7 + 0.5) = 2 x 1.2 = 2.4 km

= 2.4 x 1000 m = 2400 m

Thus, the length of wire = 4 x 2400 = 9600 m = 9.6 km

5 .Findtheperimeterofatrianglewithsidesmeasuring10cm,14cmand15 cm.

Answer: Perimeter of triangle = Sum of all three sides

= 10 cm + 14 cm + 15 cm = 39 cm

Thus,perimeteroftriangleis39cm.

6.Findtheperimeterofaregularhexagonwitheachsidemeasuring8cm.

Answer: PerimeterofHexagon=6xlengthofoneside

= 6 x 8 m = 48 m

Thus, the perimeter of hexagon is 48 m.

Chap 11

1 .Cadetsaremarchinginaparade.Thereare5cadetsinarow.Whatisthe rule,whichgivesthenumberofcadets,giventhenumberofrows?(Use n for the number ofrows)

Answer: Number of rows = n

Cadets in each row = 5

Therefore,totalnumberofcadets= $5n$

2.Ifthereare50mangoesinabox,howwillyouwritethetotalnumberof mangoesintermsofthenumberofboxes?(Use$b$forthenumberofboxes)

Answer: Number of boxes= b

Number of mangoes in each box = 50

Therefore,totalnumberofmangoes= $50b$

3.Theteacherdistributes5pencilsperstudent.Canyoutellhowmanypencils areneeded,giventhenumberofstudents?(Use forthenumberofstudents)

Answer:

Number of students = s

Numberofpencilstoeachstudent=5

Therefore, total number of pencils needed are =

4.Abirdflies1kilometerinoneminute.Canyouexpressthedistance coveredbythebirdintermsofitsflyingtimeinminutes?(Use forflying$t$timein minutes)

Answer: Timetakenbybird= $t$minutes

Speedofbird=1kmperminute

Therefore,Distancecoveredbybird=speedxtime=1km $\times t = t$

5.RadhaisdrawingadotRangoli(abeautifulpatternoflinesjoiningdots with chalk powder as in figure). She has 8 dots in a row. How many dots will her Rangolihavefor r r rows?Howmanydotsarethereifthereare8rows?Ifthereare10 rows?

Answer: Numberofdotsineachrow=8dots

Number of rows= r r

Therefore,totalnumberofdotsinrrows= $8r$

Whenthereare8rows,thennumberofdots=8x8=64dots

Whenthereare10rows,thennumberofdots=8x10=80dots

6LeelaisRadha'syoungersister.Leela is4yearsyounger than Radha.Can youwriteLeela'sageintermsofRadha'sage?TakeRadha'sagetobe x x years.

Answer:

Radha'sage= years x

Therefore, Leela'sage= (x – 4) years

7. .Motherhasmadeladdus.Shegivessomeladdus to guests and family members;still 5 laddusremain.Ifthenumberof laddusmother gaveawayis l how manyladdus didshemake?

Answer: Number of laddus gave away = l

Number of laddus remaining = 5

Totalnumberofladdusshemake=(l +

Chap 12

1. There are 20 girls and 15 boys in a class.

(a) What is the ratio of the number of girls to the number of boys?

(b)Whatistheratioofgirlstothetotalnumberofstudentsintheclass?

Answer:(a)Theratioofgirlstothatofboys= $= \frac{4}{3}$ = 4 :3

(b) Theratioofgirlstototalstudents= = $= \frac{4}{7}$ = 4 :7

2.Outof30studentsinaclass,6likefootball,12likecricketandremaininglike tennis.Findtheratioof:

(a)Thenumberofstudentslikingfootballtothenumberofstudentslikingtennis.

(b)Thenumberofstudentslikingcrickettothetotalnumberofstudents.

Answer: Totalnumberofstudents=30

Number of students like football = 6

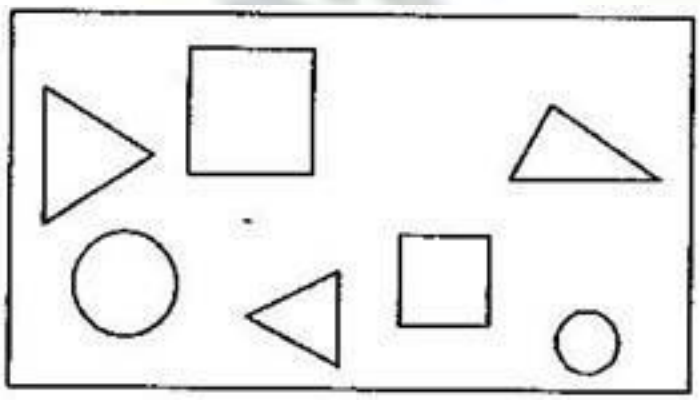
Numberofstudentslikecricket=12

Thus number of students like tennis = 30 – 6 – 12 = 12

(a) Theratioofstudentslikefootballthatoftennis= $= \frac{1}{2}$ = 1 :2

(b) Theratioofstudentslikecrickettothatoftotalstudents= $= \frac{2}{5}$ = 2 :5

3. See the figure and find the ratio of



(a) Thenumberoftrianglestothenumberofcirclesinsidetherectangle.

(b) Thenumberofsquarestoallthefiguresinsidetherectangle.

(c) The number of circles to all the figures inside the rectangle.

Answer:(a)Ratioofnumberoftriangletothatofcircles= $\frac{3}{2}$ = 3 :2

(b) Ratioofnumberofsquarestoallfigures= $\frac{2}{7}$ = 2 :7

(c) Ratio of number of circles to allfigures= $\frac{2}{7}$ = 2 :7

4.DistancestravelledbyHamidandAkhtarinanhourare9kmand12km.Find theratiooftheSpeedofHamidtotheSpeedofAkhtar.

Answer: We know that, Speed =

Speed of Hamid = =9km/h andSpeedofAkhtar= = 12km/h

RatioofspeedofHamidtothatofspeedofAkhtar= = 3 : 4

Solve: Each carry three marks

Chap 7

1.Ilaread25pagesofabookcontaining100pages.Lalita read $\frac{2}{5}$ of the same book. Who readless?

Answer: Ila read 25 pages out of 100 pages.

Fractionofreadingthepages= = part of book

Lalitaread part ofbook= pages

Since $\frac{1}{4} < \frac{2}{5}$

Therefore, Ila read less.

2 .Rafiq exercisedfor $\frac{3}{6}$ ofanhour,whileRohit exercisedfor $\frac{3}{4}$ ofanhour .Who exercisedforalongertime?

Answer: Rafiq exercised $\frac{3}{6}$ of an hour.

Rohit exercised $\frac{3}{4}$ of an hour.

Since $\frac{3}{4} > \frac{3}{6}$

Therefore, Rohit exercised for a longer time.

3. In a class A of 25 students, 20 passed in first class; in another class B of 30 students, 24 passed in first class. In which class was a greater fraction of students getting first class?

Answer: In class A, 20 passed out of 25, i.e = $\frac{4}{5}$

In class B, 24 passed out of 30, i.e. = $\frac{4}{5}$

Hence, each class have same fraction of student getting first class.

5. Solve:

(a) $\frac{2}{3} + \frac{1}{7}$

(b) +

(c) $\frac{4}{9} + \frac{2}{7}$

(d) $\frac{5}{7} + \frac{1}{3}$

Answer: (a) L.C.M. of 3 and 7 is 21

$\therefore \frac{2}{3} + \frac{1}{7} =$ = =

(b) L.C.M. of 10 and 15 is 30

$\therefore$ + $\frac{3\times3+7\times2}{30}$

(c) L.C.M. of 9 and 7 is 63

$\therefore \frac{4}{9} + \frac{2}{7} = \frac{4\times7+2\times9}{63} = \frac{28+18}{63} =$

(d) L.C.M.of7and3is21

$\therefore \frac{5}{7} + \frac{1}{3} =$ $=$ $=$ $=$

Chap 8

1 RashidspentRs.35.75forMathsbookandRs.32.60forSciencebook.Findthe total amount spent byRashid.

Answer: MoneyspentforMathsbook=Rs.35.75

MoneyspentforSciencebook=Rs.32.60

Totalmoneyspent=Rs.35.75+Rs.32.60=Rs.68.35 Therefore, total money spent by Rashid is Rs.68.35

2. Radhika'smothergaveherRs.10.50andherfathergaveherRs.15.80.Findthe totalamountgiventoRadhikabyherparents.

Answer: Moneygivenbyhermother=Rs.10.50

Moneygivenbyherfather=Rs.15.80

TotalmoneyreceivedbyRadha=Rs.10.50+Rs.15.80=Rs.26.30

Therefore,totalmoneyreceivedbyRadhaisRs.26.30.

3. Express as meters using decimals:

(a) 15cm
(b) 6cm

(c) 2 m 45cm

(d) 9 m 7cm

(e) 419cm

Answer: (a) ∵ 1cm= m

$\therefore$

15cm= x15=0.15m

(b) ∵ 1cm= m

∴ 6cm= x6=0.06m

(c) ∵ 1cm= m

∴ 2m45cm=2+ x45=2.45m

(d) ∵ 1cm= m

∴ 9m7cm=9+ x7=9.07m

(e) ∵ 1cm= m

∴ 419cm= x419= = 4.19m

4. Express as cm using decimals:

(a) 5mm

(b) 60mm

(c) 164mm

(d) 9 cm 8mm

(e) 93mm

Answer:(a) ∵ 1mm= cm

∴ 5mm= x5=0.5cm

(b) ∵ 1mm= cm

∴ 60mm= x60=6cm

(c) ∵ 1mm= cm

∴ 164mm= x164=16.4cm

(d) ∵ 1mm= cm

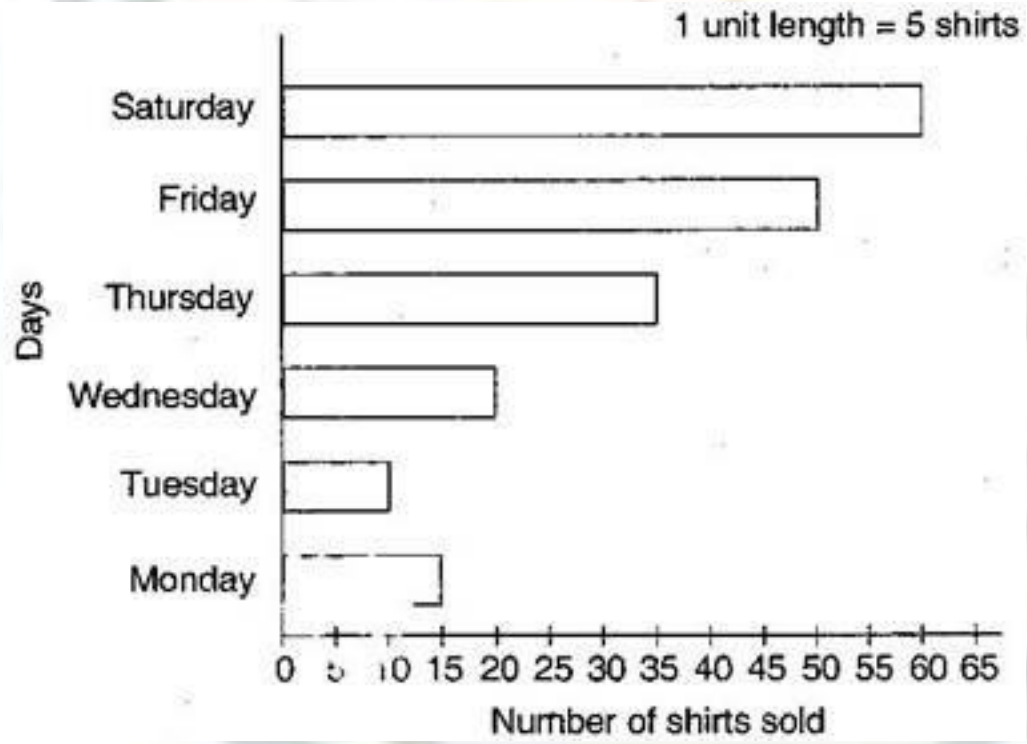
∴ 9cm8mm=9+ x8=9+0.8=9.8cm

(e) ∵ 1mm= cm

∴ 93mm= x93=9.3cm

Chap 9

1. .Observethisbargraphwhichshowsthesaleofshirtsinareadymadeshopfrom Monday to Saturday.



Now answer the following questions:

(a) Whatinformationdoestheabovebargraphgive?

(b) Whatisthescalechosenonthehorizontallinerepresentingnumberofshirts?

(c) Onwhichdaywerethemaximumnumberofshirtssold?Howmanyshirtsweresoldon thatday?

(d) Onwhichdaywereth eminimumnumberofshirtssold?

(e) HowmanyshirtsweresoldonThursday?

Answer:(a)Thebargraphshowsthesaleofshirtinareadymadeshopfrom Mondayto Saturday.

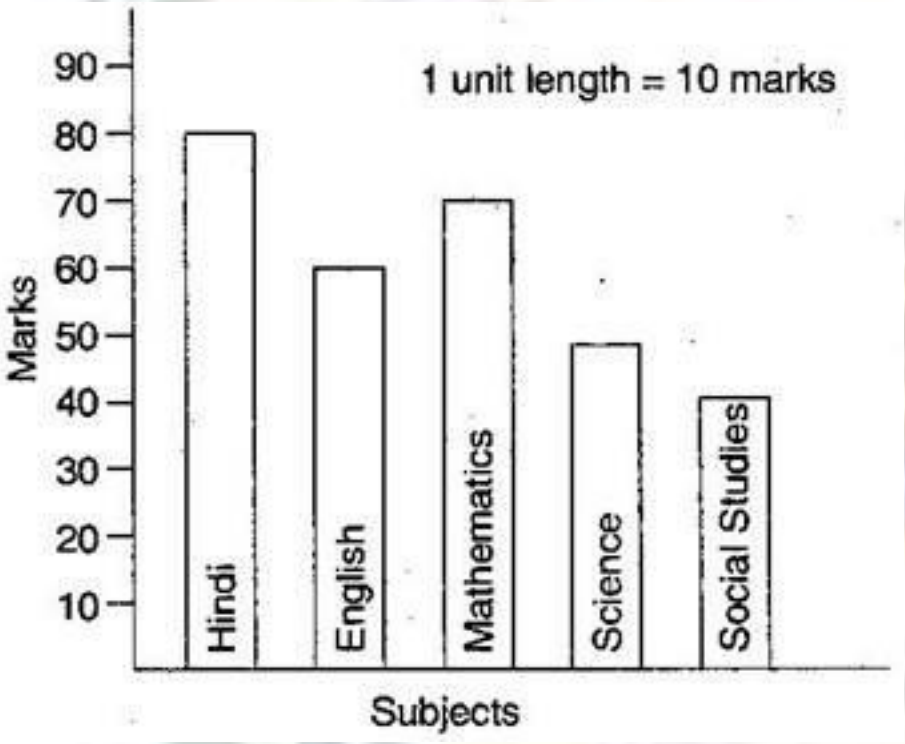
(b) 1 unit = 5shirts

(c) OnSaturday,maximumnumberofshirts,60shirtsweresold.

(d) OnTuesday,minimumnumberofshirtsweresold.

(e) OnThursday,35shirtsweresold.

2. .Observethisbargraphwhichshowsthemarksobtainedby Azizinhalfyearly examination in differentsubjects:



Answer the given questions:

(a) Whatinformationisdoesthebargraphgive?

(b) Name the subject in which Aziz scored maximum marks.

(c)Namethesubjectinwhichhehasscoredminimummarks.

(d)State the name of the subjects and marks obtained in each of them

Answer:(a)ThebargraphshowsthemarksobtainedbyAziz in half yearly examination in different subjects.

(b) Hindi.

(c) Social Studies.

(d) Hindi80, English60, Mathematics70, Science50, SocialStudies40.

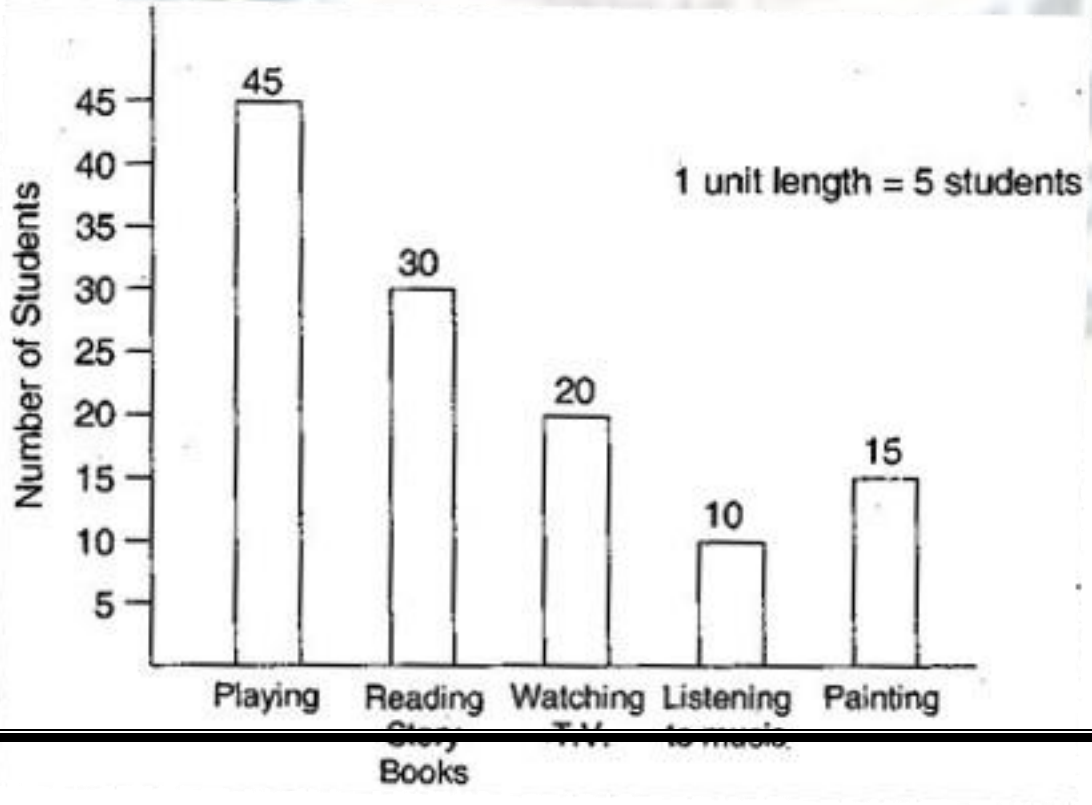
3. .Asurveyof120schoolstudentswasdonetofindwhichactivitytheyprefertodo in their free time:

Preferred activity	Number of students
Playing	45
Readingstorybooks	30
Watching TV	20
Listening tomusic	10
Painting	15

Drawabargraphtoillustratetheabovedatatakingscaleof1unitlength=5students Which activity is

preferred by most of the students other than playing?

Answer:

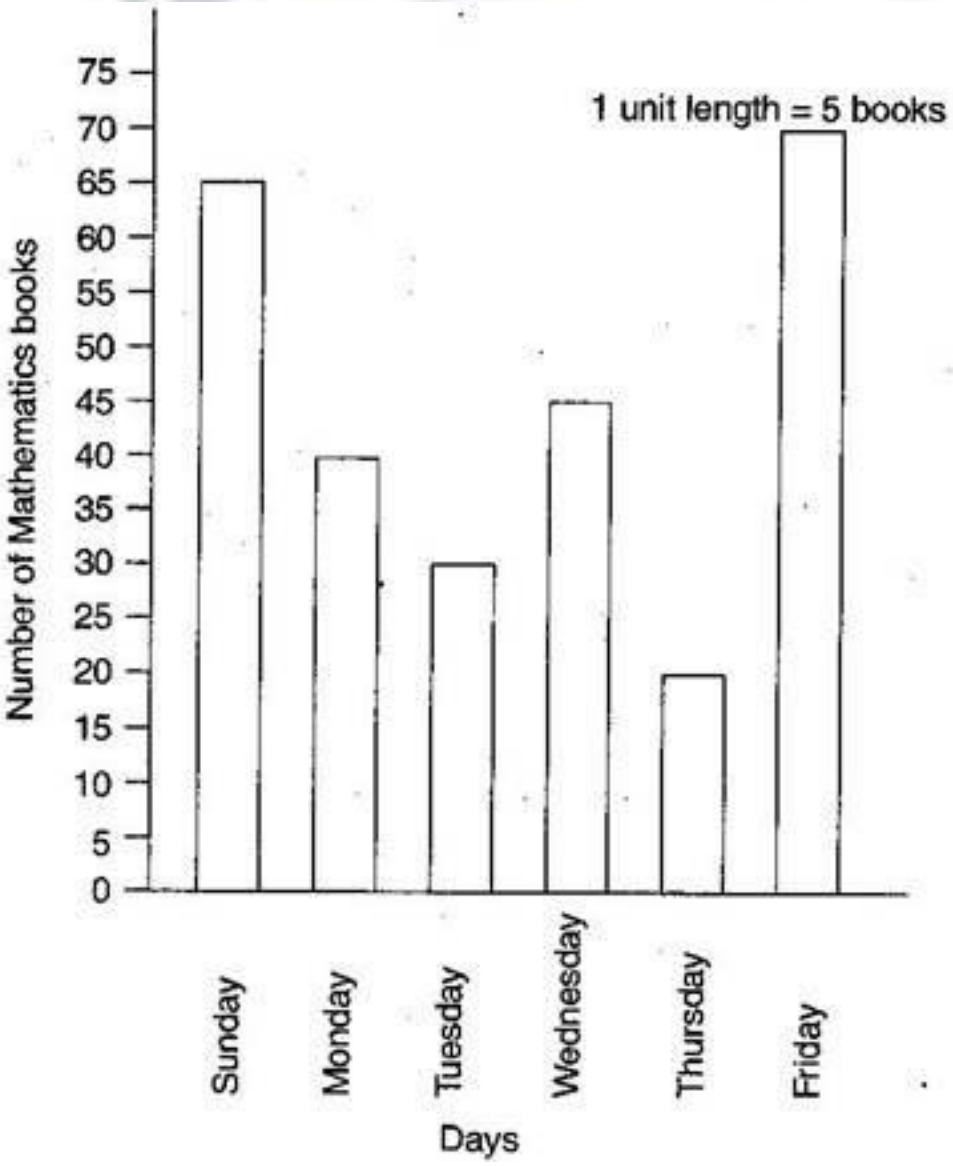


Ans: Reading Story Books is preferred by most of the students other than playing

4.Thenumberofmathematicsbookssoldbyashopkeeperonsixconsecutivedays is shownbelow:

Draw a bar graph to represent the above information choosing the scale of your choice.

Answer:



Chap 10

1.Findthecostoffencingarectangularparkoflength175mandbreadth125 mattherateofRs.12permeter.

Answer: Length of rectangular park = 175 m

Breadth of rectangular park = 125 m

Perimeterofpark=2x(length+breadth)

= 2 x (175 + 125)

= 2 x 300 = 600 m

Since, cost of fencing park per meter = = Rs. 12

Therefore, cost of fencing park of 600 m = 12 x 600 = Rs. 7,200

2. Sweetyrunsaroundasquareparkofside75m.Bulbulrunsarounda rectangularparkwithlengthof60mandbreadth45m.Whocoverslessdistance?

Answer: DistancecoveredbySweety=Perimeterofsquarepark

Perimeterofsquare=4xside

= 4 x 75 = 300 m

Thus, distance covered by Sweety is 300 m.

Now, distance covered by Bulbul = Perimeter of rectangular park Perimeter of rectangular park = 2 x (length + breadth)

= 2 x (60 + 45)

= 2 x 105 = 210 m

Thus,Bulbulcoversthedistanceof210m. So,

Bulbul covers lessdistance.

3. Theareaofarectangulargarden50mlongis300m^2,findthewidthofthe garden.

Answer: Lengthofrectangle=50mandAreaofrectangle=300m^2

Since,Areaofrectangle=lengthxbreadth

Therefore,Breadth= = = 6m

Thus,thebreadthofthegardenis6m.

4.Whatisthecostoftilingarectangularplotofland500mlongand200m wide at the rate of Rs. 8 per hundred sq. m?

Answer: Lengthofland=500mandBreadthofland=200m

Area of land=length x breadth=500m x 200m= 1,00,000m^2

∵ Cost of tiling 100 sq. m of land = Rs. 8

∴ Costoftilling1,00,000sq.mofland= $* 100000$ = Rs.8000

Chap 11

1.Identifytheoperations(addition,subtraction,division,multiplication)in formingthefollowingexpressionsandtellhowtheexpressionshavebeenformed:

(a) $z +$ $z -$ $+$ $- 17$

(b) $17y, 5z$

(c) $2y+17, 2y17-$

(d) $7m, +$ -3 $-$

Answe ; (a) z +1 Addition

z – 1 Subtraction

y + 17 Addition

y – 17 Subtraction

(b) 17y Multiplication

y/17 Division

5z Multiplication

(c) 2y + 17 MultiplicationandAddition

2y - 17 Multiplication andSubtraction

(d) 7m Multiplication

7m + 3 MultiplicationandAddition

7m – 3 Multiplication andSubtraction

2. Give expressions for the following cases:

(a) 7 addedto p.

(b) 7 subtractedfrom p.

(c) p multiplied by7.

(d) p divided by7.

(e) 7 subtractedfrom

(f) $-p$ multiplied by5.

(g) $-p$ divided by5.

(h) p multipliedby

Answer:

(a) $p + 7$

(b) $p - 7$

(c) $7p$

(d)

(e) -7

(f)

(g) $\frac{-p}{5}$

(h)

3. Giveexpressioninthefollowingcases:

(a) 11addedto $2m$.

(b) 11subtractedfrom $2m$.

(c) 5times y to which 3 isadded.

(d) 5times y from which 3 issubtracted.

(e) y is multipliedby

(f) y ismultipliedby andthen5isaddedtotheresult.

(g) y ismultipliedby5andresultissubtractedfrom16.

(h) y ismultipliedby andtheresultisaddedto16.

Answer:

(a) $2m+11$

(b) $2m-11$

(c) $5y+3$

(d) $5y3-$

(e)

(f) $+5$

(g) $165y$

(h) $+16$

4. (a)Fromexpressionsusing t and4.Usenotmorethanonenumber operation. Every expressionmusthave t init.

(b) Formexpressionsusing y, 2and7.Everyexpressionmusthave y init.Useonlytwo numberoperations.Theseshouldbedifferent.

Answer:

(a) t + 4, t – 4, 4t, t/4

(b) $2y + 7, 2y - 7, 7y + 2, 7y - 2$and soon

Chap 12

1. In a year, Seema earns Rs. 1,50,000 and saves Rs. 50,000. Find the ratio of:

(a) MoneythatSeemaearnstothemoneyshesaves.

(b) Moneythatshesavestothemoneyshespends.

Answer: Totalearning=Rs.1, 50,000andSaving=Rs.50,000

$\therefore$ Moneyspent=Rs.1, 50,000-Rs.50,000=Rs.1, 00,000

(a) Ratioofmoneyearnedtomoneysaved= $\frac{1,50,000}{50,000} = \frac{50,000\ X3}{1\ X\ 50,000}$=3:1

(b) Ratioofmoneysavedtomoneyspend=$\frac{50,000}{1,00,000}$= $\frac{50,000\ X1}{50,000\ X2}$ = 1:2

2. In a college out of 4320 students, 2300 are girls. Find the ratio of:

(a) Thenumberofgirlstothetotalnumberofstudents.

(b) Thenumberofboystothenumberofgirls.

(c) Thenumberofboystothetotalnumberofstudents.

Answer:

Totalnumberofstudentsinschool=4320

Number of girls =2300

Therefore, number of boys = 4320 – 2300 = 2020

(a) Ratioofgirlstototalnumberofstudents= $\frac{2300}{4320}$ = $\frac{115\ x\ 20}{216\ x\ 20}$=115:216

(b) Ratioofboystothatofgirls= $\frac{2020}{2300}$= $\frac{101\ x\ 20}{115\ x\ 20}$ = 101:115

(c) Ratioofboystototalnumberofstudents= $\frac{2020}{4320}$= $\frac{101\ x20}{216\ x20}$ = 101:216

3 **.**Outof1800studentsinaschool,750optedbasketball,800optedcricketand remainingoptedtabletennis.Ifastudentcanoptonlyonegame,findtheratioof:

(a) Thenumberofstudentswhooptedbasketballtothenumberofstudentswhooptedtable tennis.

(b) Thenumberofstudentswhooptedcrickettothenumberofstudentsoptingbasketball.

(c) Thenumberofstudentswhooptedbasketballtothetotalnumberofstudents.

Answer: Totalnumberofstudents=1800

Numberofstudentsoptedbasketball=750

Numberofstudentsoptedcricket=800

Therefore, number of students opted tennis = 1800 – (750 + 800) = 250

(a) Ratioofstudentsoptedbasketballtothatofoptedtabletennis= $\frac{750}{250}$ = $\frac{3\ x\ 250}{1\ x\ 250}$=3:1

(b) Ratioofstudentsoptedcrickettostudentsoptedbasketball= $\frac{800}{750}$ = $\frac{50\ x\ 16}{50\ x15}$=16:15

(c) Ratioofstudentsoptedbasketballtototalno.ofstudents= $\frac{750}{1800}$= $\frac{5\ x\ 150}{150\ x12}$ = 5:12

4.ThecostofadozenpensisRs.180and

costof8ballpensisRs.56.Findthe ratioofthecostofapentothecostofaballpen.

Answer: Costofadozenpens(12pens)=Rs.180

∴ Cost of 1pen= = Rs.15

Cost of 8 ball pens = Rs. 56

∴ Cost of 1 ballpen= = Rs.7

Ratioofcostofonepentothatofoneballpen= = 15:7

==========XXXX==========

PAPER FORMATE

SECTION - A

(i)Choose correct option [1 x 10 = 10]

(ii) Fill the blank [1 x 10 = 10]

(iii) Tell whether the statement is true or false: [1 X 10 = 10]

(IV) Solve: Each carry one marks [1X 10 = 10]

SECTION - B

Solve: Each carry two marks (Any four) [2 X 8= 16]

SECTION -C

Solve: Each carry three marks (Any one) [3 X 8 = 24]