

MAYOOR SCHOOL AJMER
MATHEMATICS/VI/ANNUAL EXAM/MONDAY/9TH MARCH 2009
(TIME ALLOWED: 2 HOURS 30 MINUTES)

VKS: 160
M.M 100

VI A-VKS
VI B- VKS
VI C- DKS
VI D- MNR

INSTRUCTIONS:

- (i) This paper contains 26 questions.
(ii) All questions are compulsory.

Q.1. Find the value of the following.

(1x10)

- (i) Write in roman numeral 69 _____
(ii) Write the predecessor of 98765
(iii) Which is the smallest whole number?
(iv) Express 44 as sum of the two odd primes.
(v) What is the measure of right angle?
(vi) A _____ is a chord passing through centre of the circle.
(vii) $9+(-6)$
(viii) $4.36 + 9.72$
(ix) Express as mixed fraction $35/9$
(x) Pick out the solution.

$$\frac{q=9}{3} \quad (22,27,29,32)$$

Q.2. Find the perimeter of regular pentagon with each side measuring 5cm.

(2)

Q.3. Give expressions of the following.

- (i) 13 subtracted from p.
(ii) First r multiplied by 9, then 8 subtracted from the product.

(2)

Q.4. Do the ratios 15cm to 2m and 10 second to 3minutes form a proportion?

(2)

Q.5. Find the number of lines of symmetry for the figures.

(2)

(a)



(b)



Q.6. Draw an angle of measure 45 with compass & ruler and bisect it.

(2)

Q.7. (a) 1 crore = _____ million

(b) Insert coma suitably and write the name according to international system of numeration: 954327527.

(3)

Q.8 A machine, on an average manufacture 2,825 screws a day. How many screws did It produces in the month of January 2009?

(3)

Q.9(a) Draw number line and locate the points on them :

$\frac{2}{5}, \frac{3}{5}, \frac{8}{5}, \frac{4}{5}$

(b) $4\frac{2}{3} + 2\frac{1}{3}$

(3)

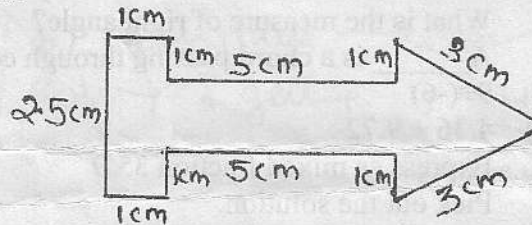
Q.10 (a) Which is greater?

1.462 or 1.467

(b) Ravi has Rs. 20.50 He bought one pen for Rs 12.25 How much money Does he have now?

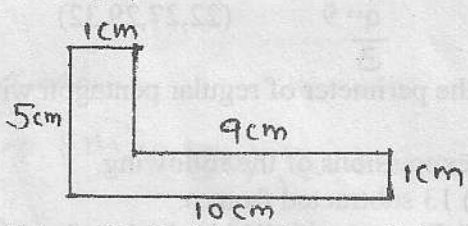
(3)

Q.11 (a) Find perimeter of the given figure.



(b) Find the area of the given figure.

(3)



Q.12 Complete the table and by inspection of the table find the solution of the equation $7t = 28$

(3)

t	1	2	3	4	5
7t					

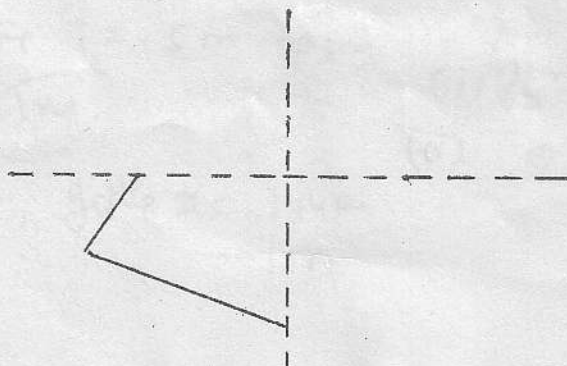
Q.13 A motorbike travels 240Km in 4litre of petrol. How much distance it covers in 1.5litre of petrol ?

(3)

Q.14 (i) Write the number of the lines of symmetry for scalene and isosceles.

(ii) Copy the figure. on paper and complete it such that resulting figure. has two dotted lines of symmetry.

(3)



Q.15 Draw any line segment AB take a point C not on it . Through C, draw a perpendicular to AB. (USE RULAR AND SETSQUARE) (3)

Q. 16 Find by suitable rearrangement..

(a) $837 + 208 + 363$

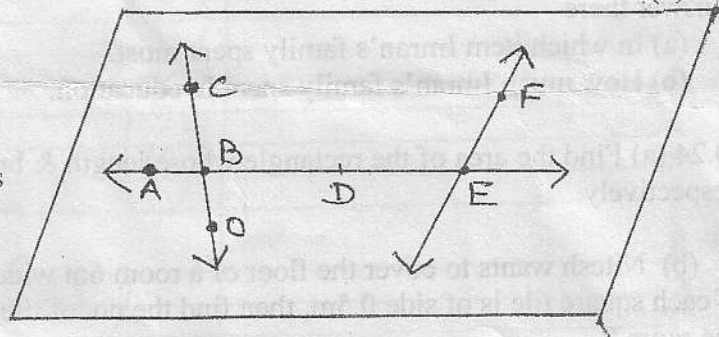
(b) $2 \times 1768 \times 50$ (3)

Q.17 (a) Find the HCF of 91, 112, and 49.

(b) Find the LCM of 40, 48, and 45. (5)

Q.18 Use the figure to name:

- (a) Line containing point E.
- (b) Line passing through A.
- (c) Line on which O lies.:
- (d) Two pairs intersecting lines



Q.19 Match the following triangles :

- | | |
|-----------------------------------|--------------|
| (i) Three sides of equal length | SCALEDNE |
| (ii) Two side of equal angls | OBTUSE ANGLE |
| (iii) 1 obtuse angle | EQUILATERAL |
| (iv) 3 acute angle | ACUTE ANGLE |
| (V) All sides of different length | ISOSCELES |
- (5)

Q.20 (i) Use no. line and add $-3 + 9 + (-5)$

(ii) Find the sum : $48 + (-5) + (-69) + (-11)$ (5)

Q.21 (i) Find the equivalent fraction of $48/60$ with

- (a) numerator 8
- (b) denominator 180

(ii) Radha read 50 pages of a book containing 100 pages. Shyam read $2/5$ of the same book. Who read less? (5)

Q.22 Rahul bought 3kg 80gm of apples, 3kg70gm of grapes and 9kg600gm of mangoes. Find the total weight he brought ? (5)

Q.23 Following table shows the monthly expenditure of Imran's family on various items

ITEMS	EXPENDITURE (Rs)
House Rent	3000
Food	3400
Education	800
Electricity	400
Transport	600
Miscellaneous	1200

Represent this data in the form of bar graph.

Answer there

- (a) In which item Imran's family spent most.
- (b) How much Imran's family spent in education. (5)

Q.24 (a) Find the area of the rectangle whose length & breath are 15cm and 9cm respectively.

(b) Nitesh wants to cover the floor of a room 6m wide and 8m long by squared tiles. If each square tile is of side 0.5m, then find the no. of tiles required to cover the floor of the room. ? (5)

Q.25 (a) Find the ratio of 35 paisa to 1 rupee.

(b) There are 60 persons working in an office if the females are 35 and the remaining are males, find the ratio of :

- (i) The no. of females to no. of males.
- (ii) The no. of males to the no. of persons (5)

Q.26 Draw a circle of radius 6cm draw any two of its chords. Construct the perpendicular bisectors of these chords. Where do they meet? (5)