JB ACADEMY
Review Test

Name: **Class VII, Sub: Maths** **M.M. 50**

Class & Sec.:

Mental Maths: (10)

Q1) The area of a right-angled triangle whose sides are 6 cm, 8 cm and 10 cm will be

(a) 48 cm^2 (b) 40 cm^2 (c) 24 cm^2 (d) 18 cm^2

Q2) 1 cm^2 = …… mm^2

(a) 10 mm^2 (b) 100 mm^2 (c) 0.1 mm^2 (d) 0.01 mm^2

Q3) (2 , 3, 5) are sides of a

(a) Right angled triangle (b) Scalene triangle (c) Isosceles triangle (d) Triangle is not possiable

Q4) Which of the following is a pair of supplementary angles

(i) $(125^0 , 55^0)$
(ii) $(30^0 , 140^0)$
(iii) $(60^0 , 120^0)$
(a) Only (i) (b) Only (ii) (c) (i) and (iii) Both (d) (i,) (ii) and (iii) all

Q5) When two lines intersect, then the angles opposite to each other is called

(a) Adjacent angles (b) Linear pair (c) complementary angles (d) Vertically Opposite angles

Q6) Two sides of a triangle are 13cm and 8cm, then the third side will not be less than

(a) 5 cm (b) 8 cm (c) 13 cm (d) 21 cm

Q7) $(2^5)^3$ = ?

(a) 2^8 (b) 10^3 (c) 2^{15} (d) 2^2

Q8) The standard form of the number 340000 will be

(a) 3.4×10^6 (b) 3.4×10^5 (c) 3.4×10^4 (d) 3.4×10^3

Q9) Equation for the following statement is

"5 is subtracted from the product of (-8) and y will be 35"

(a) 5 – 8y = (b) 8y – 5 = 35 (c) 5 + 8y = 35 (d) –8y –5 = 35

Q10) In the given expression, which of the following is a binomial

(a) x + y +3 (b) 3xy (c) xy + 3 (d) 3xyz

Calculation Based: (16)

Q11) Solve the following equations: (1.5 + 1.5)

(i) $\frac{2x}{3} + \frac{5}{3} = \frac{7}{3}$ (ii) 3(x –3) = 12

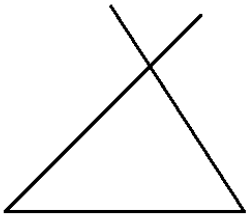
Q12) Find the value of the given expressions when a = 2 and b = -3 (1.5 + 1.5)

(i) $(a^2 – ab + b^2)$ (ii) $(a + b)^2$

Q13) Fill in the blanks: (1 +1 +1)

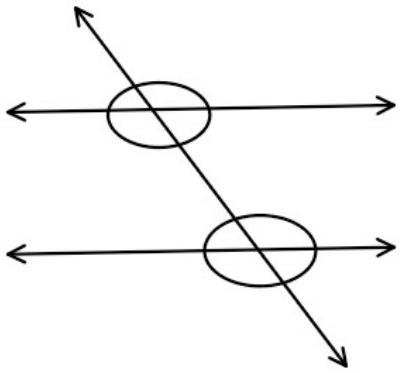
(i) $5^3 \div 5^3$ =…… (ii) $7^3 \times 7^4$ =…… (iii) 11^0 = ……

Q14) Find the value of x, y and z in the following (3)

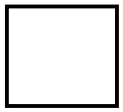
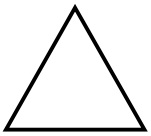
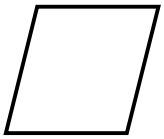
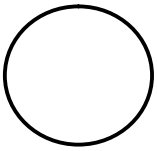


OR

In the given figure a parallel to b, t is the transversal then find the value of unknown angles



Q15) Match the following: (4)

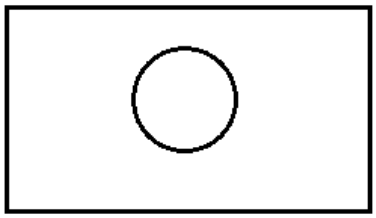
	Shapes	**Area of Shapes**
(i)		**(a) 54 cm^2**
(ii)		**(b) 154 cm^2**
(iii)		**(c)144 cm^2**
(iv)		**(d) 72 cm^2**

Application based: (24)

Q16) The angles of a triangle are in the ratio 3:4:5. Find (2+ 1 + 1)

(i) Each angle of the triangle.
(ii) Sum of smallest and largest angle of the triangle
(iii) Verify angle sum property of the triangle.

Q17) In the adjoining figure represents a rectangular lawn with the flower bed in the middle. (4)



Find:

(i) the area of the whole land
(ii) the area of the flower bed
(iii) the area of the lawn excluding the area of the flower bed
(iv) the circumference of the flower bed

Q18) Two cross roads, each of width 10m, cut at right angles through the centre of a rectangular park of length 700 m and breadth 300 m and parallel to its sides. Find the area of cross roads. Also find the area of park excluding cross roads. (4)

Q19) What should be added to $3p^2 – 5q^2 + 4pq - 7$ to get $p^2 – pq + 7q^2$ (4)

Q20) Find the value of : (2+2)

(i) $\dfrac{2^0 + 3^0 + 4^0}{5^0 \times 7^0 \times 11^0}$

(ii) $\dfrac{(3^2)^5 \times 81}{9^7}$

Q21) A tree is broken at a height of 8m form the ground ands its top touches the ground at a distance of 15 m from the base of the tree. Find the original height of the tree. (4)

OR

In the given figure l || m, t is the transversal Write :

(a) Pairs of Alternate interior angles
(b) Pairs of corresponding angles
(c) Pairs of co-interior angles