CLASS VIII
MATHEMATICS
REVISION ASSIGNMENT

Q1 Find the square root of 5 up to two decimal places.
Q2 What number should be added to 3913 to get a perfect square. Also find the perfect square and its square root.
Q3 Find the smallest number by 2800 which should be multiplied to get a perfect square
Q4 Find the square root of
(a) (0.125 x 0.000064)
(b) $\frac{0.000625}{0.008}$
Q6 In an auditorium, the number of chairs in a row is same as the number of rows. If the total chairs are 1225 then find the number of chairs in each row.
Q6 Two adjacent angles of a parallelogram are $(3x+40)°$ and $(5x -80)°$. Find the measure of all angles.
Q7 Two opposite sides of a parallelogram are (3x - 8) cm and (10x +13) cm. Find the measure of all sides.
Q8 The area of trapezium is 158 cm^2. If The ratio of opposite parallel sides is 5:7, find the height of trapezium.
Q9 The perimeter of trapezium is 56cm. If the length of non-parallel sides is 12cm and 8cm and its height is 14cm, find the area of trapezium.
Q10The non –parallel sides is equal to 9cmeach and the one parallel side is twice the other sides. If its perimeter is 84cm and height is 20cm, find the area of trapezium.
Q11 A field in the shape of trapezium and its area is 396 m^2. If the parallel sides are in the ratio 3:5, find the measures of the sides. Also, find the cost of levelling the field at rate of Rs9.50 per m^2
Q12 Find the smallest number which should be divided to 5608 to get a perfect cube.
Q13 Find the cube root of a) 21952 (b) 1053 x 1521
Q14 The shoppers who come to departmental store are marked as: Man (M), Woman (W), Boy (B) or Girl (G).The following list gives the shoppers who came during the first hour in the morning.
W,W,B,B,W,M,M,G,,M,G,W,B,G,M,G,B,W,W,B,B,G,G,B,W,M,M,B,G,M,M.
Make a frequency distribution table using a tally marks.
Q15 Multiply

(i) $(2p^2 - 3q)\ by\ (p - q^2)$
(ii) $(2x^2 - x + 5)(4 - x)$
(iii) $(5p^3 - 2pq + 7)(2q^2 - 4pq - 7p^2)$

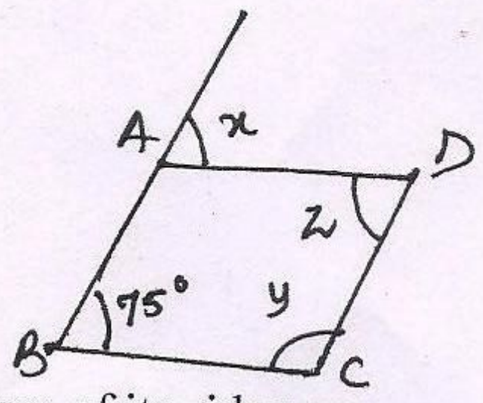
Q16 Find the length of the rectangle if area is $(4x^3 - 2x^2 - 5x + 3)$ and breadth is$(x - 1)$.
Q17 Using identity, evaluate $16x^2 + 24xy + 9y^2$ for $x = -1, y = 2$
Q18 Find the quotient and the remainder when $(- 4y^2 + y^3 + 6+ y)$ is divided by $(y - 3)$.
Q19 Factorize:

(i) $(x - 3y)^2 - 4x - 12$
(ii) $(2p + q)^2 - 8pq$
(iii) $-4y^2 + 9$
(iv) $ab(x^2 + y^2) - xy(a^2 + b^2)$
(v) $4x^2 - 8x - 5$
(vi) $25a^2 - 40ab + 16b^2 - 81c^2$
(vii) $-16b^2 - 96b - 144$

(viii) $p^2 - 3$

Q20 In the given figures, find the value of x, y and z.

ABCD is a parallelogram.



Q21 The perimeter of a triangle is $3a^2 - 6ab - 1$ and two of its sides are $4a^2 - 7ab + 7$ and $-2a^2 + 3ab - 4$. Find the third side of the triangle.

Q22 The height of the 20 students of class 8^{th} is given below:
134cm,112cm,135cm,145cm,176cm,130cm,136cm,132cm,140cm,142cm,146cm,144cm, 133cm,168cm,155cm, 132cm 120, 150cm,141cm,151cm.

Make a frequency distribution table starting from 110 – 117. Also, find the range for the given data.

Q23 The marks of the students in a test are given below:

Marks	25 – 30	30 – 35	35 – 40	40 – 45	45 – 50
No. of students	15	8	10	17	9

Represent the above data on histogram and answer he following question.
Q1 Find the Class mark of each interval.
Q2 How many students scored more than 40 marks?

Q24 Factorize:

(a) $5x^4 - 15x^5 + 10x^2$
(b) $a - 7 + 7bc - abc$
(c) $p^4 - q^4$
(d) $x^2 - 5x - 36$
(e) $(2x + 1)^2 - (x + 1)^2$
(f) $4x^2 + 9y^2 - 4z^2 - 12xy$
(g) $7x - 6 - 2x^2$
(h) $16z^4 - 1$
(i) $49a^2 + 84ab + 36b^2$
(j) $8x^2 - 12\sqrt{2}\,xz + 9z^2$

Q25 The population of a town increases up to 15% every year. If the present population is 64000. Find the population after 3 years.

Q26 Evaluate 12% of 15% of 4500 g

Q27 Find the value of x if x% of 450 is 112.5

Q28 Out of her monthly salary, Mrs. Sharma spends 12% on house rent and 48% of the rest on household expenditure. If she saves 9152 , what is her total monthly salary?

Q29 Express 3:4 as percent.

Q30 A gunpowder contain 10% of sulphur , 72% of nitre and rest is charcoal. Find the Amount of charcoal in 89 kg of gunpowder.

Q31 If $+\frac{1}{x} = 9$, find $x^2 + \frac{1}{x^2}$

Q32 If $2x + 3y = 7$ and $y = 8$, find $4x^2 + 9y^2$