



SCHOOL-BASED ASSESSMENT (SBA) - 2025

END-OF-YEAR ASSESSMENT

SUBJECT: MATHEMATICS

GRADE-8

FINAL TERM

[Paper A: 48 Marks, Paper B: 52 Marks, Total: 100 Marks], Time = 3 hours

School Name: GPS BAHAR WADANI (EMIS: 32130869)

Student Name : _____ Roll Number : _____ Section : _____

OBJECTIVE PART(MCQs)

Question No.1 : The number $\sqrt{9}$ is:

- (a) Composite number (b) Even number (c) Rational number (d) Irrational number

Question No.3 : By rounding 50.51765 upto three decimal places, we get:

- (a) 50.517 (b) 50.518 (c) 50.527 (d) 50.516

Question No.5 : The square of 35 is:

- (a) 1005 (b) 1205 (c) 1250 (d) 1225

Question No.7 : If $A = \{1, 3, 5, 7\}$ and $B = \{3, 7, 8, 9\}$, then $B - A$ will be:

- (a) $\{8, 9\}$ (b) $\{3, 7\}$ (c) $\{1, 5\}$ (d) $\{7, 9\}$

Question No.9 : The number of subsets of set $A = \{1, 2, 3\}$ is:

- (a) 5 (b) 6 (c) 7 (d) 8

Question No.11 : Amir bought a motorcycle for Rs 75000 and sold it for Rs 81000. His profit percentage is:

- (a) 6% (b) 8% (c) 10% (d) 12%

Question No.13 : If $a_n = 4n - 1$, then the value of a_5 will be:

- (a) 16 (b) 17 (c) 18 (d) 19

Question No.15 : The open sentence is:

- (a) $3 \times 4 = 12$ (b) $2 + 4 = 6$ (c) $3a^0 = 3$ (d) $4x + 1 = 4$

Question No.17 : In scientific notation 0.00000023 is written as:

- (a) 2.3×10^{-7} (b) 23×10^{-7} (c) 2.3×10^{-6} (d) 2.3×10^6

Question No.19 : If $3x + y = 7$ and $x = 2$, then the value of y will be:

- (a) 1 (b) 4 (c) 10 (d) 13

Question No.21 : The slope of the line $4x + 2y = 2$ is:

- (a) -4 (b) -2 (c) 2 (d) 4

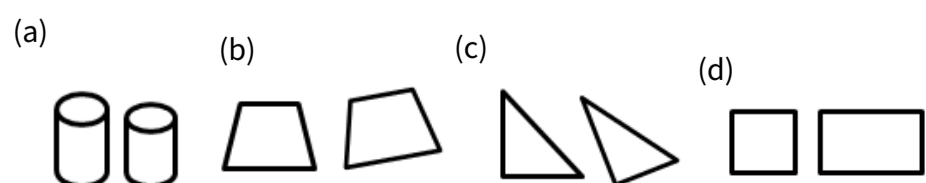
Question No.23 : If 4 cm and $2\sqrt{5}$ cm are lengths of base and perpendicular of a right angled triangle, then the length of hypotenous will be:

- (a) 5 cm (b) 6 cm (c) 12 cm (d) 25 cm

Question No.25 : The perpendicular bisectors of sides of a triangle are :

- (a) parrallel (b) Congruent (c) Concurrent (d) perpendicular

Question No.27 : Identify the congruent figures:



Question No.2 : Non terminating decimal fraction is:

- (a) $\frac{3}{8}$ (b) $\frac{1}{4}$ (c) $\frac{4}{5}$ (d) $\frac{1}{3}$

Question No.4 : The square root of 12.25 is:

- (a) 3.5 (b) 5.3 (c) 35 (d) 53

Question No.6 : If the length of side of a square shaped garden is 30 m, then its area will be:

- (a) $30m^2$ (b) $90m^2$ (c) $900m^2$ (d) $9000m^2$

Question No.8 : The set of first four odd numbers is:

- (a) $\{0,1,2,3\}$ (b) $\{1,2,3,4\}$ (c) $\{2,3,5,7\}$ (d) $\{1,3,5,7\}$

Question No.10 : The value of x in the proportion $3 : x :: x : 12$ is:

- (a) 4 (b) 6 (c) 12 (d) 36

Question No.12 : Rs 60750 into US Dollars are: (1\$=Rs 270)

- (a) 200 \$ (b) 225 \$ (c) 250 \$ (d) 275 \$

Question No.14 : The next term of arithmetic sequence 4, 9, 14, 19, ... will be:

- (a) 24 (b) 23 (c) 22 (d) 21

Question No.16 : Factorization of $x^2 - 14x + 49$ is:

- (a) $(x - 7)^2$ (b) $(x + 7)^2$
(c) $(x + 7)(x - 7)$ (d) $(x + 7)(x - 2)$

Question No.18 : The solution of $5y + 9 < 24$ is:

- (a) $y < 15$ (b) $y < 5$ (c) $y < 3$ (d) $y > 3$

Question No.20 : The equation for the statement " Twice the price of a book increased by 50 becomes y" is:

- (a) $2x - 50 = y$ (b) $2x + 50 = y$
(c) $x + 50 = 2y$ (d) $2x - 50 = 2y$

Question No.22 : If the radius of a hemisphere is 6 cm, then its surface area will be:

- (a) 339.4 cm^2 (b) 350.4 cm^2
(c) 379.4 cm^2 (d) 393.4 cm^2

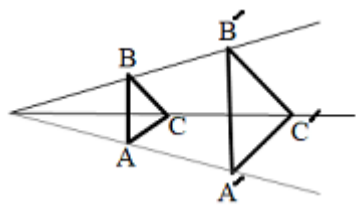
Question No.24 : A continuous part of the boundary of a circle is:

- (a) Tangent (b) Radius (c) Arc (d) Chord

Question No.26 : If the measurement of angles of a triangle are $m\angle A = 49^\circ$ and $m\angle C = 102^\circ$, then $m\angle B$ will be:

- (a) 29° (b) 30° (c) 31° (d) 32°

Question No.28 : If ABC is object and $A'B'C'$ is image in the given figure, then the scale factor k will be:



- (a) $0 < k < 1$ (b) $k < 0$ (c) $k > 1$ (d) $k = 0$

Question No.29 : The weight of 3 students (in kg) is 52,54,62. The mean of the data is:

- (a) 53 (b) 55 (c) 56 (d) 65

Question No.31 : If A and B are two independent events, then $P(A \cup B)$ will be:

- (a) $P(A)$ (b) $P(B)$ (c) $P(A) + P(B)$ (d) $P(A) - P(B)$

Question No.30 : The example of discrete data is:

- (a) 10 chairs (b) 3.5 kg (c) 4.60 litre (d) 10.25 hours

Question No.32 : If a coin is tossed twice, then the probability of getting two heads is:

- (a) $\frac{1}{4}$ (b) $\frac{2}{4}$ (c) $\frac{3}{4}$ (d) $\frac{4}{4}$

SUBJECTIVE PART(CRQs)

Question No: 33

a) If one packet contains $5\frac{1}{4}$ liters of oil, then find the quantity of oil in 5 such packets.(5 marks)

b) Find Square root of 3364 by prime factorization.(5 marks)

Question No: 34

a) Verify associative law of intersection if $A = \{1, 2, 4, 6, 9\}$, $B = \{2, 4, 9, 10\}$, $C = \{1, 2, 3, 5, 9, 10\}$. (5 marks)

b) Cost price of car is Rs 480000 and sale price is Rs 320000. Find loss percentage. (5 marks)

Question No: 35

a) Find the general term of geometric sequence 1, 3, 9, 27, ... (5 marks)

b) Evaluate $(109)^2$ by using formula.(5 marks)

Question No: 36

a) Find the solution set of $3x + y = 7$ and $x + 7y = 9$ by using method of elimination. (5 Marks)