

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: _____

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 16 is:

- (a) 32 (b) 160 (c) 256 (d) 320

Question No.7 : If $A = \{1, 2, 3, 5\}$ and $B = \{1, 3, 4, 5\}$, then $B - A$ will be:

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

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

- (a) 0 (b) 1 (c) 2 (d) 4

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 $a_n = 2n + 5$ then the value of a_5 will be:

- (a) 15 (b) 16 (c) 17 (d) 18

Question No.15 : The closed sentence is:

- (a) $a + b = 4$ (b) $3x = -7$ (c) $x + 2 = -7$ (d) $\sqrt{9} + 2 = 5$

Question No.17 : In scientific notation 0.000065 is written as:

- (a) 0.65×10^{-6} (b) 6.5×10^{-5} (c) 6.5×10^{-4} (d) 6.5×10^{-3}

Question No.19 : If $2x + y = 8$ and $x = 1$, then the value of y will be:

- (a) 1 (b) 6 (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) parallel (b) Congruent (c) Concurrent (d) perpendicular

Question No.27 : Identify the congruent figures:

- (a)  (b)  (c)  (d) 

Question No.2 : Non-terminating decimal fraction is:

- (a) $\frac{2}{5}$ (b) $\frac{6}{10}$ (c) $\frac{16}{20}$ (d) $\frac{5}{12}$

Question No.4 : The square root of 0.04 is:

- (a) 0.002 (b) 0.02 (c) 0.2 (d) 2

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 whole numbers is:

- (a) $\{0, 1, 2, 3\}$ (b) $\{2, 3, 5, 7\}$ (c) $\{1, 3, 5, 7\}$ (d) $\{3, 5, 7, 9\}$

Question No.10 : The value of x in the proportion $4 : 6 :: 8 : x$ is:

- (a) 4 (b) 8 (c) 12 (d) 16

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 $x^2 - 5x + 6$ is:

- (a) $(x - 2)(x + 3)$ (b) $(x + 2)(x - 3)$
(c) $(x - 2)(x - 3)$ (d) $(x + 2)(x + 3)$

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 "The price of a book and 3 pencils is Rs 90" is:

- (a) $3x + 3y = 90$ (b) $3x = y + 90$
(c) $x + 3y = 90$ (d) $x + y = 90$

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 the distance of object and image from centre of enlargement is 6 and 2 units respectively, then the scale factor will be:

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

Question No.29 : Uzma obtained 24,46,41 marks in different subjects. The mean of the data is:

- (a) 24 (b) 37 (c) 40 (d) 85

Question No.31 : If A and B are two independent events, then P(AUB) 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) 15.5 litre (b) 5.5 kg (c) 7.5 cm (d) 5 books

Question No.32 : If a fair coin is tossed 3 times, then the probability of getting three heads is:

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

SUBJECTIVE PART(CRQs)

Question No: 33

a) How many pieces of $\frac{3}{4}$ meter of wire can be cut from a wire which is $\frac{105}{2}$ meter long? (5 marks)

b) Find the square root of 390625 by division method. (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 arithmetic sequence 3,7,11,15,19,..... 5 marks)

b) Find the value of $x^2 + \frac{1}{x^2}$ when $x - \frac{1}{x} = 5$. (5 marks)

Question No: 36

a) Find the solution of the equations $2x + 3y = 12$ and $x - y = 1$ with the help of substitution method. (5 marks)

b) Find the volume of a sphere whose radius is 42 cm. (5 marks)

Question No: 37

a) Construct a triangle LMN with the help of compass and ruler when $m\overline{LM} = 4cm$, $m\angle L = 60^\circ$ and $m\overline{LN} = 5.5cm$. (7 marks)

b) A fair dice is rolled. Khalid wins the game if the result is less than three. What will be the probability of winning the game for Khalid? (5 Marks)