

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 $A = \{1, 2, 3\}$ is:

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

Question No.11 : Arshad bought a car for Rs 960000 and sold it for Rs 1020000. His profit percentage is:

- (a) 6.05% (b) 6.25% (c) 6.50% (d) 6.75%

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 open sentence is:

- (a) $1 \times 2 = 2$ (b) $4 + \nabla = 1$ (c) $6 \div 6 = 1$ (d) $13 - 4 = 9$

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 $3y - x = 4$ and $x = 5$, then the value of y will be:

- (a) 3 (b) 5 (c) 7 (d) 9

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

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

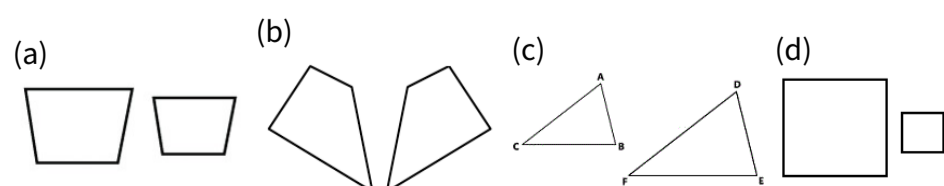
Question No.23 : If 6 cm and 8 cm are lengths of base and perpendicular of a right angled triangle, then the length of hypotenous will be:

- (a) 10 cm (b) 18 cm (c) 32 cm (d) 50 cm

Question No.25 : The angle bisector of a triangle divides the angle into equal parts:

- (a) 2 (b) 3 (c) 4 (d) 5

Question No.27 : Identify the congruent figures:



Question No.2 : Terminating decimal fraction is:

- (a) $\frac{3}{8}$ (b) $\frac{4}{11}$ (c) $\frac{24}{51}$ (d) $\frac{43}{99}$

Question No.4 : The square root of 2.25 is:

- (a) 1.2 (b) 1.3 (c) 1.4 (d) 1.5

Question No.6 : If the length of side of a square shaped page is 20 cm, then its area will be:

- (a) 40 cm^2 (b) 400 cm^2 (c) 410 cm^2 (d) 420 cm^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 $4 : 6 :: 8 : x$ is:

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

Question No.12 : Rs 49000 into US Dollars are: (1\$= Rs. 250):

- (a) 190 \$ (b) 192 \$ (c) 194 \$ (d) 196 \$

Question No.14 : The next term of arithmetic sequence 2, 9, 16, 23, ... will be:

- (a) 29 (b) 30 (c) 31 (d) 32

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 9 books and 7 pencils is Rs 1050" is:

- (a) $9x - 7y = 1050$ (b) $9 + 7y = 1050$
(c) $9x + 7y = 1050$ (d) $9x + 7 = 1050$

Question No.22 : If the radius of a hemisphere is 3 cm, then its surface area will be:

- (a) 5.46 cm^2 (b) 6.45 cm^2
(c) 56.5 cm^2 (d) 84.85 cm^2

Question No.24 : The fixed point of the circle is called:

- (a) Radius (b) Centre (c) Chord (d) Circumference

Question No.26 : If the measurement of angles of a triangle are $m\angle A = 65^\circ$ and $m\angle B = 35^\circ$, then $m\angle C$ will be:

- (a) 80° (b) 90° (c) 100° (d) 110°

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 : 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 $P(A \cap B)$ will be:

- (a) $P(A) - P(B)$ (b) $\frac{P(A)}{P(B)}$ (c) $P(A) \cdot P(B)$ (d) $\frac{P(A)}{P(A) + P(B)}$

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

- (a) 6 flowers (b) 20 girls (c) 15 balls (d) 3.5 kg

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) If $A = \{a, b, c, d\}$, $B = \{a, e, i\}$ and $C = \{e, c, g, h\}$, then verify associative law of intersection. (5 Marks)

b) Feroz bought a car for Rs 75000 and sold it for Rs 100000. Find his profit percentage. (5 Marks)

Question No: 35

a) Find the general term of arithmetic sequence 7,11,15,19,..... . (5 marks)

b) Evaluate $(48)^2$ by using formula. (5 marks)

Question No: 36

a) Find solution of $3x + 5y = 2$, $x + 2y = 4$ with the help of substitution method. (5 marks)

b) Find the volume of a hemisphere whose radius is 10 cm. (5 marks)

Question No: 37

a) Construct a rectangle ABCD, when $m\overline{AB} = 5cm$ and $m\overline{BC} = 7cm$. (7 marks)