

**Elementary Education (Class-8th) Completion Certificate
Examination 2019**

Subject : Mathematics

Time : 2.30 hrs.

Total Marks : 100

Roll No. (In figure) (In words)

Name of Student Name of School

Signature of Invigilator Signature of Valuer

Obtained marks (In figure) (In words)

Instructions :

- 1. All questions are compulsory.**
- 2. Marks are indicated against each question.**
- 3. Question number 11 to 15 have internal choice .**

Q. 1. (A) Choose the correct alternative: (10 Marks)

(i) If $\frac{x}{4} = \frac{1}{2}$ then the value of x is :

- (a) $\frac{1}{2}$ (b) 2 (c) 4 (d) 8

Ans. :

(ii) The sum of two numbers is 42 . If the first number is x then second number is :

- (a) $42 - x$ (b) $42 + x$ (c) $42x$ (d) $\frac{42}{x}$

Ans. :

(iii) A farmer pays Rs. 4 per acre as land revenue to the government. If the farmer has 8 acres of agricultural land, how much land revenue would he pay to the government ?

- (a) Rs 4 (b) Rs 12 (c) Rs 32 (d) Rs 48

Ans. :

(iv) The length of two diagonals of a rhombus are 10 cm and 12 cm respectively. Its area is -

- (a) 11sq.cm (b) 22sq.cm (c) 60sq.cm (d) 120sq.cm

Ans. :

(v) The additive inverse of $\frac{-5}{7}$ is :

- (a) 0 (b) $\frac{5}{7}$ (c) $\frac{7}{5}$ (d) $\frac{-7}{5}$

Ans. :

(B) Fill in the blanks : (10 Marks)

(i) Simple interest =

(ii) Curved surface area of cylinder = circumference of base of
cylinder \times

(iii) Number of faces in a triangular prism is

(iv) The shape of the face of cube is

(v) 3, 5, 7,----- 11, 13

Q. 2. Represent $\frac{3}{5}$ on number line.

(4 Marks)

Ans.
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Q. 3. Simplify $\frac{2}{9} + \frac{1}{3} - \frac{5}{9}$

(4Marks)

Ans.
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Q. 4. Find out the base of the parallelogram whose area is 75 cm^2 and height is 5 cm. (4 Marks)

Ans.
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Q. 5. Find the curved surface area of a cylinder whose diameter is 20 m and height is 21 m (4 Marks)

Ans.
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Q. 6. Draw labelled diagram of a cuboid.

(4 Marks)

Ans.

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Q. 7. Area of the base of a cylinder is 154 square cm and its height is 8 cm.

What will be its volume?

(4 Marks)

Ans.

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Q. 8. The printed value of a book is Rs. 40 and which is available at 12% discount. Find the discount and selling price of the book. (6 Marks)

Ans.
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Q. 9. Solve the equation $\frac{7m + 6}{4m + 2} = 2$ (6 Marks)

Ans.
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Q. 10. Find the area of a trapezium whose parallel sides are of 20m and 8m and the distance between these two sides is 12 m. (6 Marks)

Ans.
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Q. 11. The radius of two concentric circles are 9cm and 12 cm respectively. Find the area of the circular path between these two circles. (6 Marks)

Or

A basketball ground is 28 m long and 15 m wide. A 5 m wide gallery for spectators has to be built on all the sides of the ground. Find the area of the spectator gallery.

Ans.
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Q. 12. A circular well of radius 3.5 m is dug upto 20 m deep. Find out the volume of mud dug out from the well. (6 Marks)

Or

The radius of a closed cylindrical tin box is 7cm and its height is 15 cm. Find the area of tin sheet used for making the box.

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Q. 13. The denominator of a rational number is 2 more than its numerator. If the numerator is increased 4 times, and 8 is added to the denominator, the new number would be $\frac{4}{3}$. Find the original number. (8 Marks)

Or

Manisha's mother age is thrice the age of Manisha. After 4 years, mother's age would be two and a half times that of Manisha. Find their present ages.

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Q. 14. Urvashi borrowed a loan of Rs. 2000/- at the rate of 20% annual interest. If interest is calculated half yearly, how much money will she return after $1\frac{1}{2}$ years. (8 Marks)

Or

Find out the principal which will be Rs. 1331 in 3 years at the rate of 10% per annum as compound interest.

Ans.
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Q. 15. A cuboidal Stepwell is 8 m long, 6 m broad and 9m deep. It has water filled up to the height of 6m. Find the capacity of the well and the present volume of water filled in the well. (10 Marks)

Or

The volume of a wooden cuboid is 36 cm^3 . If its length is 4 cm and breadth 3cm, then find its height. Also find the total surface area of wooden cuboid.

Ans.

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