

CTET Maths (Paper 2) Solved Questions with Answer

Which one of the following is the most appropriate feature of mathematics textbooks at elementary level?

- (1) Concepts should be presented from concrete to abstract
- (2) The language of the book must be highly precise and technical
- (3) Books must contain a lot of similar questions to practice
- (4) Concepts should be presented from complex to simple

Answer: 1

Three numbers are in the ratio 2 : 3 : 4 and the sum of their cubes is 33957. What is the sum of the three numbers?

- (1) 54
- (2) 63
- (3) 72
- (4) 81

Answer: 2

Which of the following is not a dimension of assessment of mathematics learning?

- (1) Communication
- (2) Patterns and procedures
- (3) Disposition towards mathematics
- (4) Mathematical reasoning

Answer: 3

A sum of INR 8000 becomes INR 9500 at 7.5% p.a. in x years at simple interest. What will be the amount of the sum in same time at 20% p.a, if interest is compounded yearly?

- 1) INR 13824
- (2) INR 11616
- (3) INR 12144
- (4) INR 12672

Answer: 4

The domain of learning that deals with attitudes and values is known as:

- (1) Knowledge domain
- (2) Cognitive domain
- (3) Affective domain
- (4) Psychomotor domain

Answer: 3

Concept was labelled as 'Schema' by:

- (1) Vygotsky
- (2) Piaget
- (3) Bruner
- (4) Van Hiele

Answer: 2

Which of the following is used to record students' problem solving ability, measurement ability and experimentation ability?

- (1) Teacher Diary
- (2) Cumulative Record
- (3) Report Card
- (4) Anecdotal Record

Answer: 4

In a pie chart, the marks obtained by a student in Mathematics, Science, Social Science, Hindi and English are respectively represented by sectors of central angles 90° , 80° , 65° , 75° and 50° . If the total marks obtained by the students were 540, then what is the difference of the marks obtained by him/her in Mathematics and English?

- (1) 60
- (2) 50
- (3) 40
- (4) 30

Answer: 1

Teacher conducted an oral assessment in class and found that Ram can speak definition of all types of numbers - odd, even, prime and composite accurately, but not able to identify the numbers accurately when given a set of numbers. Which of the following is most appropriate for the above situation?

- (1) Ram has good memory but lacks practice.

- (2) Ram has good memory but lacks concentration.
- (3) Ram has good memory but lacks conceptual understanding.
- (4) Ram has analytical ability.

Answer: 3

The distance between the parallel sides AB and CD of a trapezium ABCD is 12 cm. If $AB < CD$, $CD = 24$ cm and $AD = BC = 13$ cm, then area of the trapezium (in cm^2) is:

- (1) 228
- (2) 123.5
- (3) 114
- (4) 247

Answer: 1

Which among the following Learning-Teaching Resources (LTRs) are most appropriate for visually challenged students in mathematics classroom?

- (a) Geogebra
- (b) Taylor's abacus
- (c) Computer
- (d) Spreadsheet

Choose the correct option:

- (1) (a) and (b)
- (2) (c) and (d)
- (3) (b) and (c)
- (4) (b), (c) and (d)

Answer: 3

For teaching addition of integers at the upper primary stage which of the following is least useful?

- (1) Use of chart paper
- (2) Use of stairs
- (3) Use of lift
- (4) Use of number line

Answer: 1

National Education Policy (NEP) 2020 recommends that Sports Integrated Pedagogy needs to be used in classroom teaching. Which among the following are correct in the context of using sports integrated pedagogy in mathematics classroom?

- (a) Teaching-learning process shall become joyful.
- (b) It is not possible to use sports for teaching mathematics.
- (c) It will be time consuming and hence needs to be avoided.
- (d) Apart from popular sports, there are many indigenous sports which can be used in teaching mathematics.

Choose the correct option:

- (1) (a) and (c)
- (2) (b) and (c)
- (3) (a) and (d)
- (4) (b), (c) and (d)

Answer: 3

The cost price of an article is INR 750. It is sold for INR 608 by giving 24% discount on its marked price. Had it been sold on its marked price, then what would have been the profit percent?

- (1) $2\frac{6}{3}\%$
- (2) 5%
- (3) 6%
- (4) $1\frac{5}{3}\%$

Answer: 1

A box opened at the top is made of wood of thickness 3 cm. Its external length, breadth and height are respectively 1.48 m, 1.16 m and 83 cm (base= length× breadth). What will be the cost of painting its inner surface at INR 150 per m²?

- (1) INR 838.20
- (2) INR 839.10
- (3) INR 841.40
- (4) INR 842.50

Answer: 2

Cards bearing numbers 12, 13, 14, ... , 70, 71 (one number on one card) are kept in a box and then a card is drawn from the box without looking into it. What is the probability that the card drawn has the number which is not a prime?

- (1) $45/59$
- (2) $1/4$
- (3) $15/59$
- (4) $3/4$

Answer: 4

Three consecutive integers are such that when they are taken in increasing order and multiplied by 3, 5 and 2, respectively, they add up to 99. What is the sum of the original first and third integers?

- (1) 16
- (2) 18
- (3) 20
- (4) 24

Answer: 3

A student listed the following properties of Rational Numbers. Which one/ones is/are correct?

- (a) A rational number includes integers.
- (b) 0 (zero) is not a rational number.
- (c) All fractions are rational numbers.

Choose the correct option:

- (1) (a) and (c)
- (2) Only (b)
- (3) Only (c)
- (4) (a) and (b)

Answer: 1

The lengths of the parallel sides of a trapezium are 11 cm and 25 cm and the distance between them is 12 cm. Its area is equal to the area of a rectangle whose sides are in the ratio 3 : 2. What is the perimeter (in cm) of the rectangle?

- (1) 40
- (2) 50
- (3) 60
- (4) 70

Answer: 3

If x is the least number which must be added to 955 to make it a perfect square, then value of $3x+2$ is equal to:

(1) 20

(2) 14

(3) 11

(4) 5

Answer: 1

Note: These questions are compiled from the official CTET Previous Years Question Papers.

