

Class: VI
Subject: Mathematics
Topic:
No. of Questions: 30
Duration: 90 Min
Maximum Marks: 90

Q.1 In Parul's garden, there are 25 rows of vegetables. She has 5 more rows of peppers than tomatoes and two fewer rows of cucumbers than tomatoes. If y represents the number of rows of tomatoes in the garden, which number sentence can be used to find how many rows of each vegetable be planted?

- a) $y + (y + 5) + (y + 2) + y = 25$
- b) $(y + 5) + y = 25$
- c) $(y + 5) + (y - 2) = 25$
- d) $(y + 5) + (y - 2) + y = 25$

Solution: d) $(y + 5) + (y - 2) + y = 25$

Q.2 Subtract 29.375 from the sum of 85.75 and 5.9.

- a) 62.275
- b) 63.375
- c) 64.275
- d) 65.275

Solution: a) 62.275

Q.3 The 5-day forecast for the south pole lists the low temperature (in $^{\circ}\text{F}$) as -24° , -28° , -29° , -25° and -30° . Which choice shows the temperature in order from the lowest to the highest?

- a) -24° , -25° , -28° , -29° , -30°
- b) -30° , -28° , -29° , -25° , -24°
- c) -30° , -29° , -28° , -25° , -24°
- d) -30° , -29° , -28° , -24° , -25°

Solution: c) -30° , -29° , -28° , -25° , -24°

Q.4 What is the value of the given expression?

$$3 + 3 * 3 (4 + 3)$$

- a) 38
- b) 42
- c) 45
- d) 66

Solution: d) 66

Q.5 Mohit is selling candy bars. He has chocolate bars, nut bars and mint bars. If a customer buys two bars, and the bars are not of the same type, how many different combinations are possible?

- a) 3
- b) 6
- c) 9
- d) 12

Solution: b) 12

Q.6 The opposite sides of a parallelogram are _____ and _____.

- a) Equal and parallel
- b) Equal and non-parallel
- c) Unequal and parallel
- d) Unequal and non-parallel

Solution: a) Equal and parallel

Q.7 A vessel has 5l 120 ml of mango shake. How many glasses each of 40 ml capacity, can be filled with it?

- a) 122
- b) 130
- c) 118
- d) 128

Solution: d) 128

Q.8 A quadrilateral having only one pair of opposite sides parallel is called a _____.

- a) Rhombus
- b) Square
- c) Trapezium
- d) Rectangle.

Solution: c) Trapezium

Q.9 Vinita can type 28 words per minute. At this rate, how many words Vinita can type in 5.5 minutes?

- a) 154
- b) 157
- c) 159
- d) 162

Solution: a) 154

Q.10 At a school, there are 704 desks to place into 22 classrooms. If the same number of desks is placed in each classroom, how many desks will be there in each room?

- a) 32
- b) 34
- c) 42
- d) 44

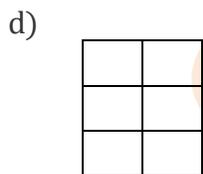
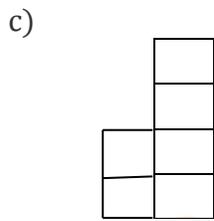
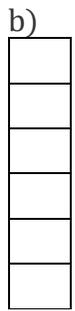
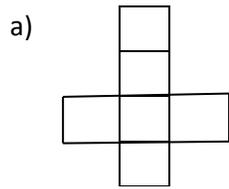
Solution: a) 32

Q.11 If A stands for add B stands for subtract, C stands for multiply and D stands for divide then $4A3B3A2$ stands for _____.

- a) 2
- b) 4
- c) 6
- d) 8

Solution: c) 6

Q.12 Which net, when folded, will cover all the faces of a cube?



Solution: a)





Q.13 I am a palindrome. I am greater than 11 and less than 50 . I am an odd number. What am I?

- a) 11
- b) 22
- c) 33
- d) 44

Solution: c) 33

Q.14 A shopkeeper had a profit of Rs. 50 on Monday, a loss of Rs. 20 on Tuesday, and a loss of Rs. 18 on Wednesday. Find his net profit or loss in 3 days?

- a) Rs. 30
- b) Rs. 32
- c) Rs. 12
- d) None of these

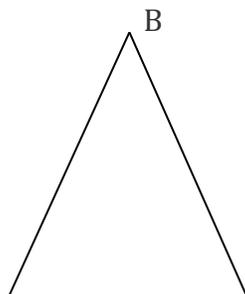
Solution: c) Rs. 12

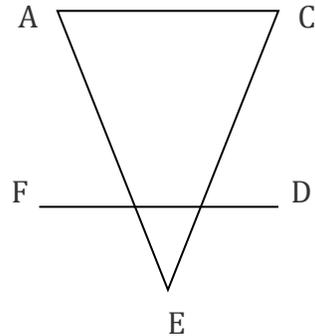
Q.15 On the number line, one end of a segment is at -5 and the other at 7. How long is the line segment?

- a) 2 units
- b) -12 units
- c) 12 units
- d) None of these

Solution: c) 12 units

Q.16 Find the sum measures of the angles A, B, C, D, E, F in the following figure.





- a) 180°
- b) 360°
- c) 270°
- d) 540°

Solution: b) 360° .

Q.17 If one angle of a pair of complementary angles is 1° , then the other one is

- a) 1°
- b) 89°
- c) 179°
- d) 90°

Solution: b) 89° .

Q.18 Ram has $\frac{2}{5}$ of $\frac{1}{2}$ of $\frac{2}{3}$ of a minute. How many seconds does he have?

- a) 8 sec
- b) 9 sec
- c) 10 sec
- d) None of these

Solution: a) 8 sec

Q.19 $8.25 = ?$

- a) $8\frac{1}{2}$
- b) $8\frac{2}{5}$
- c) $8\frac{1}{4}$
- d) $8\frac{3}{4}$

Solution: c) $8\frac{1}{4}$

Q.20 If $12 - x = -152$, find the value of x.

- a) 10
- b) -10
- c) 12
- d) -12

Solution: d) -12

Q.22 An equation is solved as follows:

$$x - 6 = 4 \text{ or } x = 4 + 6 \text{ or } x = 10$$

This method of solution is called_____.

- a) Transposition method
- b) Trial and error method.
- c) Both a and b
- d) None of these

Solution: a) Transposition method

Q.23 If p, q, r, s are in proportion, then we have

- a) $p:q::r:s$
- b) $p:s::q:r$

- c) Both a and b
- d) $q:r::p:s$

Solution: a) $p:q::r:s$

Q.24 If 32 workers can build a house in 15 days, how many days will 10 workers take to build a similar house?

- a) 42 days
- b) 45 days
- c) 48 days
- d) 40 days

Solution: c) 48 days

Q.25 If x and y are length and breadth of a rectangle respectively, its area is given by:

- a) xy sq. units
- b) x/y sq. units
- c) $2xy$ sq. units
- d) $(x + y)$ sq. units

Solution: a) xy sq. units

Q.26 If length and breadth of a rectangle are doubled and halved respectively, its area becomes

- a) 2 times
- b) 4 times
- c) Unchanged
- d) Half

Solution: c) Unchanged

Q.27 In ΔABC , $AB=AC$ and $AD \perp BC$, $BE \perp AC$ and $CF \perp AB$, then ΔABC is symmetrical about

- a) AD
- b) BE

- c) CF
- d) AB

Solution: a) AD

Q.28 An isosceles trapezium has

- a) No line of symmetry
- b) 2 lines of symmetry
- c) 1 line of symmetry
- d) 3 lines of symmetry

Solution: c) 1 line of symmetry

Q.29 What kind of an angle is it, if it is equal to its supplement?

- a) Acute
- b) Obtuse
- c) Right
- d) None of these

Solution: c) right

Q.30 In a frequency distribution, the frequency is written as $\text{||||} \text{||||} \text{||}$. The value of this frequency is

- a) 11
- b) 12
- c) 10
- d) 8

Solution: b) 12

