

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

Q.1 A T.V. costs Rs. 24,600. If a cooler costs Rs. 800 more than one-third of that of the T.V., the cost price of the cooler is

- a) Rs. 9,000
- b) Rs. 10,000
- c) Rs. 9,100
- d) Rs. 13,400

Solution: a) Rs. 9,000

Q.2 Three students are asked to estimate the difference between 7509 and 459 to the nearest hundred. They get the following answers:

Student 1. 7000 Student 2. 7100 Student 3. 7200

What is your opinion about this?

- a) Student 1 is correct
- b) Student 2 is correct
- c) Student 3 is correct
- d) Both a) and b)

Solution: a) Student 1 is correct

Q.3 If $a=5$, $b=2$ and $c=4$, the value of $a \times (b + c)$ is

- a) 40
- b) 30
- c) 11
- d) 13

Solution: b) 30

Q.4 Study the following pattern:

$$1 = (1 \times 2)/2, 1 + 2 = (2 \times 3)/2, 1 + 2 + 3 = (3 \times 4)/2$$

By observing the above pattern, the value of $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$ is

- a) 85
- b) 75
- c) 65
- d) 55

Solution: d) 55

Q.5 The greatest number, which divides 134 and 167 leaving 2 as remainder in each case, is

- a) 11
- b) 17
- c) 13
- d) 12

Solution: a) 11

Q.6 The LCM of two numbers is 2175 and their HCF is 145. If one of the numbers is 125, then the other number is

- a) 725
- b) 2523
- c) 1845
- d) 3125

Solution: b) 2523

Q.7 On simplifying $25 - \{4 \div (-2)\} - 12 - 5(6 + \overline{2-8})$, we get

- a) 16
- b) -14
- c) 15
- d) -20

Solution: d) -20

Q.8 The distance between two places is 2400 km. If a train covers two-fifths of the distance, then distance uncovered by the train is

- a) 1440 km
- b) 1520 km
- c) 1500 km
- d) 1400 km

Solution: a) 1440 km

Q.9 The temperature of a place was 48°C at a certain time. After a while, the temperature recorded was 39°C , the decrease in temperature was

- a) 10°C
- b) 9°C
- c) 11°C
- d) 8°C

Solution: b) 9°C

Q.10 Two lines perpendicular to the same line are

- a) Parallel
- b) Intersecting
- c) Concurrent
- d) None of these

Solution: a) Parallel

Q.11 By joining any two points on the circumference of a circle, we obtain a

- a) Diameter
- b) Chord
- c) Radius
- d) Circumference

Solution: b) Chord

Q.12 The difference between the sum of two supplementary angles and the sum of two complementary angles is

- a) 0°
- b) 180°
- c) 90°
- d) 1°

Solution: c) 90° .

Q.13 If an angle is $\frac{1}{4}$ of its supplement, then the degree measure of the angle is

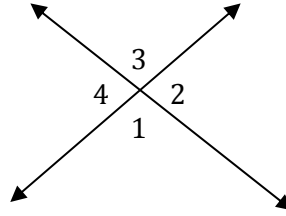
- a) 36°
- b) 45°
- c) 144°
- d) 145°

Solution: a) 36° .

Q.14 In the fig, if $\angle 1 = 60^\circ$, the sum of degree measure of $\angle 2$ and $\angle 3$ is

- a) 60°
- b) 90°
- c) 160°
- d) 180°

Solution: d) 180° .



Q.15 When we subtract $2\frac{2}{3}$ from 5, we get

- a) $3\frac{1}{3}$
- b) $2\frac{1}{3}$
- c) $14/8$
- d) Both a) and b)

Solution: b) $2\frac{1}{3}$

Q.16 If capacity of a water bottle is $5/12$ litre, the quantity of water required to fill 36 such bottles is

- a) 12 l
- b) 20 l
- c) 16 l
- d) 15 l

Solution: 15 l

Q.17 A medicine dropper contains 0.009 l. Is this less than 1 ml?

- a) Yes
- b) No
- c) Can't say
- d) Cannot be compared

Solution: b) No

Q.18 By how much is 8932 cm greater than 9687 mm?

- a) 7963.3 cm
- b) 7963.3 mm
- c) 755 cm

d) 755 mm

Solution: a) 7963.3 cm

Q.19 The present age of a brother is 5 years more than that his sister. If sum of their present ages is 21 years, the present age of the sister is

- a) 8 years
- b) 13 years
- c) 14 years
- d) 7 years

Solution: a) 8 years

Q.20 ABCD is a rectangle. If its perimeter is 84 cm, the value of x is

- a) 15 cm
- b) 17 cm
- c) 12 cm
- d) 18 cm

Solution: b) 17 cm



Q.21 If 32 men can finish a piece of work in 25 days, how many men will be required to finish it in 20 days?

- a) 40
- b) 36
- c) 48
- d) 42

Solution: a) 40

Q.22 In a hostel, 550 students had food provisions for 28 days. For how many days will it last long for 700 students?

- a) 34 days
- b) $35\frac{7}{11}$ days
- c) 22 days
- d) None of these

Solution: 22 days

Q.23 Length and breadth of a rectangle are 48 cm and 12.5 cm respectively. If the length is increased by 2 cm and breadth is increased 2 times, then area of the new rectangle so formed is

- a) 1200 sq. cm
- b) 1000 sq. cm
- c) 1150 sq. cm
- d) 1250 sq. cm

Solution: d) 1250 sq. cm

Q.24 What is the perimeter of a square having area 144 cm^2 ?

- a) 49 cm
- b) 144 cm
- c) 48 cm
- d) 18 cm

Solution: c) 48 cm

Q.25 How many lines of symmetry is possible in case of a rhombus?

- a) 2
- b) 3
- c) 4
- d) None of these

Solution: a) 2

Q.26 The bisectors divide an equilateral triangle in

- a) 1 region
- b) 2 regions
- c) 3 regions
- d) 6 regions

Solution: d) 6 regions

Q.27 With the help of a compass, we can draw the angle of

- a) 40°
- b) 55°
- c) 65°
- d) 90°

Solution: d) 90° .

Q.28 See the following data:

112, 118, 124, 108, 115, 114, 124, 112, 114, 116, 119, 120, 114, 108, 120, 112, 118, 126, 130, 114

From above data, the frequency of 114 is

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

Solution: d) 4

Q.29 What kind of angle is it, if it is greater than its supplement?

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

Solution: c) Obtuse

Q.30 The value of $|(-6)| + |5| - |(-3)|$ is

- a) -5
- b) -2
- c) 2
- d) 8

Solution: d) 8