

CBSE Sample Paper class 6 Maths Half Yearly Set 6

SUBJECT: MATHEMATICS CLASS : VI

MAX. MARKS : 80
DURATION : 3 HRS

General Instructions:

- (i). All questions are compulsory.
- (ii). This question paper contains 40 questions divided into four Sections A, B, C and D.
- (iii). **Section A** comprises of 20 questions of **1 mark** each. **Section B** comprises of 6 questions of **2 marks** each. **Section C** comprises of 8 questions of **3 marks** each and **Section D** comprises of 6 questions of **4 marks** each.
- (iv). There is no overall choice. However, an internal choice has been provided in two questions of 2 marks each, two questions of 3 marks each and two questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
- (v). Use of Calculators is not permitted

SECTION – A

Questions 1 to 20 carry 1 mark each.

1. Correct ascending order of 847,9754,8320, 571
(a) 571,8320,847,9754 (b) 571,847,8320,9754
(c) 9754,847,8320,571 (d) 9754,8320,847,571
2. State the property in statement: $256 \times 24 = 24 \times 256$
(a) Associative property in multiplication (b) Commutative property in multiplication
(c) Distributive property in multiplication (d) Closure property in multiplication
3. Which of the following pair is co-prime
(a) 6 and 8 (b) 18 and 35 (c) 7 and 35 (d) 30 and 415
4. Common factors of 15 and 25 are
(a) 15 (b) 25 (c) 5 (d) 75
5. Find the sum $837 + 208 + 603$
(a) 1548 (b) 1148 (c) 1648 (d) 1148
6. The number of sides in a pentagon are
(a) 3 (b) 5 (c) 6 (d) 4
7. An angle whose measure is equal to a full revolution is
(a) complete angle (b) obtuse angle (c) right angle (d) straight angle
8. When the sum of the measures of two angles is that of a right angle, then each one of them is _____.
(a) acute angle (b) obtuse angle (c) right angle (d) straight angle
9. 2 subtracted from 7 gives
(a) - 9 (b) 5 (c) - 5 (d) 9
10. The equivalent fraction of $\frac{3}{5}$ with denominator 20 is
(a) $\frac{12}{20}$ (b) $\frac{20}{12}$ (c) $\frac{10}{20}$ (d) $\frac{15}{20}$

11. Write the successor of 1099999.
12. Find the product of $2 \times 1768 \times 50$ by suitable rearrangement.
13. Find the HCF of 24 and 36.
14. Draw rough diagrams of two angles such that they have one point in common.
15. What is the measure of (i) a two right angle? (ii) a complete angle?
16. Which number will we reach if we move 5 numbers to the left of 1.
17. Write $\frac{3}{4}$ as a fraction with denominator 44.
18. Kanchan dyes dresses. She had to dye 30 dresses. She has so far finished 20 dresses. What fraction of dresses has she finished?
19. Write two negative integers greater than -20 .
20. Write the largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6

SECTION – B

Questions 21 to 26 carry 2 marks each.

21. Find the number of right angles turned through by the hour hand of a clock when it goes from (a) 3 to 6 (b) 2 to 8

OR

Where will the hour hand of a clock stop if it starts

- (a) from 6 and turns through 1 right angle?
 - (b) from 8 and turns through 2 right angles?
22. Find the LCM of 20, 25 and 30.
 23. Represent the following numbers on a number line : (a) $+4$ (b) -8
 24. Draw a rough sketch of a triangle ABC. Mark a point P in its interior and a point Q in its exterior. Is the point A in its exterior or in its interior?
 25. Subtract $1\frac{1}{4}$ from $6\frac{1}{2}$
 26. Write in Roman Numerals (a) 73 (b) 92

OR

Place commas correctly and write the numerals:

- (a) Seventy three lakh seventy five thousand three hundred seven.
- (b) Nine crore five lakh forty one.

SECTION – C

Questions 27 to 34 carry 3 marks each.

27. Find the difference between the greatest and the least number that can be written using the digits 6, 2, 7, 4, 3 each only once.

28. Find the product by suitable rearrangement: (a) $25 \times 8358 \times 4$ (b) $625 \times 3759 \times 8$

29. Nandini's house is $\frac{9}{10}$ km from her school. She walked some distance and then took a bus for $\frac{1}{2}$ km to reach the school. How far did she walk?

OR

Simplify: $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$

30. Using divisibility tests, determine which of following two numbers are divisible by 6:
(a) 438750 (b) 1790184

31. Find the sum : (a) $-312, 39$ and 192 (b) $-50, -200$ and 300

32. Draw any circle and mark (a) its centre (b) a radius (c) a diameter (d) a sector (e) a segment (f) a point in its interior

OR

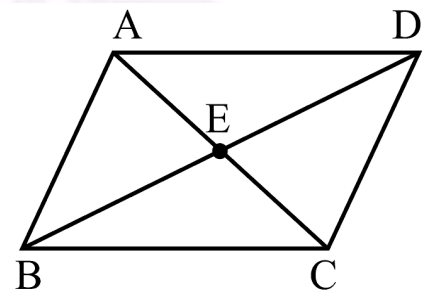
Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?

33. Name the types of following triangles :

(a) $\triangle DEF$ with $m \angle D = 90^\circ$

(b) $\triangle XYZ$ with $m \angle Y = 90^\circ$ and $XY = YZ$.

(c) $\triangle LMN$ with $m \angle L = 30^\circ$, $m \angle M = 70^\circ$ and $m \angle N = 80^\circ$.



34. In the adjoining figure, (a) name any four angles that appear to be acute angles. (b) name any two angles that appear to be obtuse angles.

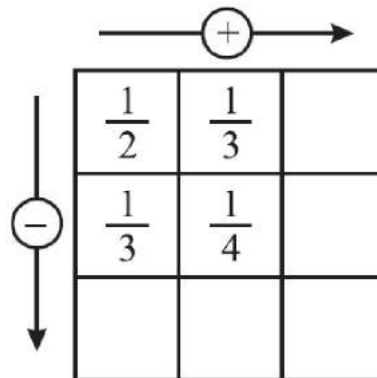
SECTION – D

Questions 35 to 40 carry 4 marks each.

35. Kirti bookstore sold books worth Rs 2,85,891 in the first week of June and books worth Rs 4,00,768 in the second week of the month. How much was the sale for the two weeks together? In which week was the sale greater and by how much?

36. The school canteen charges Rs 20 for lunch and Rs 4 for milk for each day. How much money do you spend in 5 days on these things? How many days can be paid for charges with the money Rs. 600.

37. Complete the addition-subtraction box.



38. Using the number line write the integer which is :

- (a) 3 more than 5 (b) 5 more than -5
(c) 6 less than 2 (d) 3 less than -2

OR

Find the value of

- (i) $30 + (-23) + (-63) + 55$
(ii) $(-9) + 4 + (-6) + 3$
(iii) $(-1) + (-2) + (-3)$
(iv) $(-2) + 8 + (-4)$

39. Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.

OR

The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again?

40. Where will the hour hand of a clock stop if it starts

- (a) from 6 and turns through 1 right angle?
(b) from 8 and turns through 2 right angles?
(c) from 10 and turns through 3 right angles?
(d) from 7 and turns through 2 straight angles?

