

INTERNATIONAL INDIAN SCHOOL, RIYADH

SA 1 - WORKSHEET 2016 – 2017

SUB: MATHEMATICS.

CLASS: VI

WHOLE NUMBERS

FILLING THE BLANKS:

1. Counting numbers are called _____ numbers.
2. The number zero (0) together with natural numbers forms the set of _____ numbers.
3. The smallest whole number is _____.
4. _____ does not have predecessor.
5. _____ is called the identity element of under multiplication.
6. _____ is called the identity element of under addition.
7. If a whole number is divided by 1, the quotient is equal to the _____.
8. Zero is divided by a whole number, the quotient is _____.
9. If a whole number is divided by zero, the quotient is _____.
10. The successor of 110999 is _____.
11. The successor of largest 5-digit number is _____.
12. The predecessor of smallest 6-digit number is _____.
13. $25 \div 0 =$ _____.
14. $2 \times 99 \times 0 =$ _____.
15. $54 \times 87 =$ _____ $\times 54$
16. $25 + (14 + 65) = (\quad + 14) + 65$
17. $435 \times 1005 = 435 \times (\quad + 5)$
18. The value of $\frac{7-7}{2} =$ _____.
19. $0 \div 100 =$ _____.

20. The difference between successor and predecessor of a number is _____.

ANSWER THE FOLLOWING QUESTIONS.

1. Write the successor of a) 12549 b) 984576 c) 1299999
2. Write the predecessor of a) 54000 b) 695470 c) 1234568
3. Find using the number line a) $8+6$ b) $9-5$ c) $7+4$
4. Find the product by using the suitable properties (distributive property)
 a) 564×103 b) 134×98 c) 502×1008 d) 423×996
5. Find the sum by suitable rearrangement
 a) $587 + 658 + 413$ b) $2346 + 892 + 654 + 5108$.
6. Find the product by suitable rearrangement
 a) $4 \times 254 \times 25$ b) $16 \times 585 \times 625$ c) $50 \times 147 \times 2$ d) $125 \times 47 \times 8$
7. Find the value: a) $5487 \times 65 + 5487 \times 35$ b) $647 \times 112 - 647 \times 12$
 c) $3485 \times 784 + 769 \times 25 \times 216$ d) $860 \times 999 + 86$
8. How many whole numbers are there between 39 and 55.
9. Dinesh buys 60 books and 60 copies. If the cost of a book is Rs. 125 and that of a copy is Rs 75, find the total money spent by him.
10. Find the difference between the greatest 5-digit number and greatest 4-digit number.
11. Write the next four natural numbers after 303999.
12. Write the four whole numbers occurring just before 10500.
13. Name the property used in the following statements.
 a) $25 \times (52 \times 23) = (25 \times 52) \times 23$
 b) $340 \times 125 = 340 \times (100 + 20 + 5)$
 c) $74 + 109 = 109 + 74$
14. Rahul gets hourly wages from his job. He worked 40 hours in the first week. The next week he worked for 50 hours. If the wages are Rs. 45 per hour, what were his wages for the two weeks?

KNOWING OUR NUMBERS

FILLING THE BLANKS

- 1 lakh = _____ thousand.
- 1 million = _____ lakh.
- 1 metre = _____ cm.
- 1 km = _____ metres.
- 1kg = _____ grams.
- 1litre = _____ ml.
- In Roman Numerals a symbol is not repeated more than _____ times.
- The Roman numeral M represents the number _____.
- The Roman numeral for 45 = _____.
- 'X' is subtracted from _____ and _____.

ANSWER THE FOLLOWING QUESTIONS.

- Write the following numbers in Indian system: a) 12,45,078
b) 3,40,01,584 c) 74,23,56,001
- Write the following numbers in International system:
a) 15,231,024 b) 2,005,980 c) 524,325,982
- In an election, the winning candidate registered 16,77,500 votes and his rival candidates secured 14,48,700 votes. By what margin did the winning candidate win the election?
- The difference between the greatest and smallest number that can be written using the digits 2,5,0,7 and 3 each only once.
- A vessel has 4 litres 320ml of orange juice. In how many glasses, each of 60ml capacity, can it be filled?

16. Farrukh had Rs 1,20,000 with him. He purchased a mobile for Rs 32,550 and Hero Honda bikes for Rs 68,700. How much money was left with him?
17. In a box there are 6240 apples arranged in trays, each tray has a dozen of them. Find the number of trays.
18. Estimate each of the following by rounding off each number to nearest hundreds: a) $354 + 245$ b) $74583 + 32056$
c) $51249 - 45244$ d) $65232 - 46327$
19. Estimate each of the following by rounding off each number to nearest tens: a) $6489 + 3624$ b) $23109 - 14128$
20. Write the Roman numeral for: a) 95 b) 49 c) 78 d) 89
21. Write the Hindu Arabic numeral for: a) LV b) XCVI c) XLI
22. 5250 oranges are packed equally in boxes containing 45 in each box. How many boxes are there? After all the boxes, how many oranges are left?

PLAYING WITH NUMBERS

FILLING THE BLANKS

1. The smallest prime number is _____.
2. A number which has only two factors is called a _____.
3. 1 is neither _____ nor _____.
4. The smallest composite number is _____.
5. _____ is the factor of every number.
6. The greatest factor of a number is _____.
7. 2 is called an _____ prime.

8. The HCF of two prime numbers is _____.
9. The HCF of two even numbers is _____.

10. Two numbers having only 1 as a common factor are called _____ numbers.
11. The smallest odd composite number is _____.
12. The LCM of two consecutive numbers is _____.
13. Fifth multiple of 13 is _____
14. A number for which sum of all its factors is equal to twice the number is called a _____ number.
15. The two consecutive prime numbers with a difference is 2 are called _____.
16. Every multiple is _____ than or _____ to the given number.
17. Every factor is _____ than or _____ to the given number.
18. The smallest factor of 25 is _____.
19. The greatest factor of 18 is _____.
20. If a number is divisible by 2 and 3, it is divisible by _____.
21. The sum of two consecutive odd numbers is divisible by _____.
22. The sum of any two odd numbers is an _____ number.
23. The smallest two- digit prime number is _____.

ANSWER THE FOLLOWING QUESTIONS.

24. Write all the factors of the following numbers:
a) 72 b) 45 c) 96
25. Write the SIX multiples of the following numbers:
a) 13 b) 17 c) 19
26. Express the following numbers as the sum of two odd primes:
a) 52 b) 34 c) 48
27. Express the following numbers as the sum of three odd primes:
a) 51 b) 43 c) 71

28. Write all the prime numbers less than 20.
29. Write all the prime numbers between 50 and 80.
30. Write seven consecutive composite numbers less than 100 so that there is no prime number between them.
31. Using the divisibility test, which of the following numbers are divisible by 11? a) 532235 b) 9020814 c) 70169308
32. Using the divisibility test, which of the following numbers are divisible by 6? a) 902352 b) 279144 c) 12583
33. Using the divisibility test, which of the following numbers are divisible by 4; by 8? a) 730152 b) 34552 c) 810524
34. Using the divisibility test, which of the following numbers are divisible by 3; by 9? a) 387054 b) 35601 c) 842094
35. Write the smallest digit and the greatest digit in the blank space of each of the following numbers so that the number formed is divisible by 3. a) 6_1054 b) 35_62 c) 234_17
36. Find the prime factorization of: a) 980 b) 1729
37. Write the greatest 4-digit number and express in the term of prime factorization.
38. Give the three pairs of prime numbers whose difference is 2.
39. Find the smallest number having three different prime factors.
40. Find the HCF of: a) 20, 28, 36 b) 18, 48 c) 91, 112, 49
41. Find the least number which when divided by 6, 9, 15 leave remainder 4 in each case.
42. Determine the greatest 3-digit number which is exactly divisible by 8, 15, 20.
43. Determine the smallest 3-digit number which is exactly divisible by 4, 10, 15.

44. In the morning walk three boys step off together from the same spot. Their steps measure 49cm , 56cm and 42 cm respectively. What is the minimum distance each should cover so that all can the distance in complete steps?
45. Three tankers contain 403 litres , 434 litres and 465 litres of petrol respectively. Find the maximum capacity of the container that can be measure the petrol of the three containers exact number of time.

BASIC GEOMETRICAL IDEAS

FILLING THE BLANKS.

1. A _____ is a three sided polygon.
2. A simple closed curve which is not a polygon is _____.
3. A quadrilateral has _____ diagonals.
4. _____ is the polygon having the least number of sides.
5. The chord passing through the centre of a circle is called _____.
6. Two distinct lines meeting at a point are called _____ lines.
7. Two lines in a plan said to be _____, if they do not meet.
8. A _____ of a circle is a line segment joining any two points on the circle.
9. A _____ of a circle is a region in the interior of the circle enclosed by an arc and a chord.
10. A _____ is the region in the interior of a circle enclosed by an arc on one side and a pair of radii on the other two sides.
11. The radius of a circle is _____ of its diameter.
12. All the diameters of a circle are _____.
13. Diameter of a circle is _____ chord.
14. Diameter of a circle is _____ of its radius.

15. The distance around the circle is called the _____ of the circle.

ANSWER THE FOLLOWING QUESTIONS.

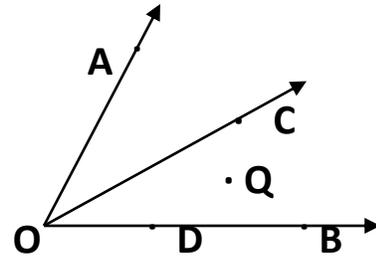
1. In the given figure, which points lie

a) on $\angle AOB$?

b) in the exterior of $\angle AOC$?

2. Draw a triangle PQR. Mark a point A

in the interior and a point B in the exterior.



3. Draw a quadrilateral ABCD. Draw its diagonals and name them.

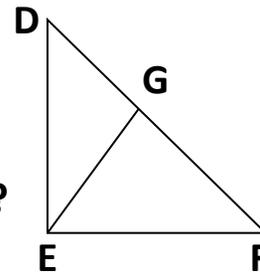
4. In the given figure,

a) Identify three triangles.

b) Write the names of six line segments.

c) Which two triangles have $\angle F$ as common?

d) Write the name of seven angles



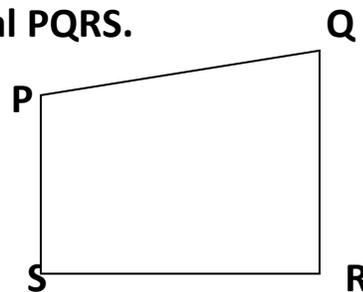
5. Draw the rough sketch of a quadrilateral PQRS.

State: a) two pairs of opposite sides,

b) two pairs of opposite angles,

c) two pairs of adjacent sides,

d) two pairs of adjacent angles.



6. Draw any circle and mark: a) the centre of the circle

b) a chord

c) three radii

d) a diameter

e) a sector

f) two points in the interior

g) a point in the exterior

h) a segment