

Dear Parents,



Session 2018-2019 is progressing quite well. We just had our 'Orientation Session' with Primary, Middle and Secondary schoolers parents and it was heartening to see your approach, co-operation and support. APS family extends gratitude for it.

A warm welcome to students who have joined our school this session. We stand committed to providing quality education to our children. The teachers follow a detailed plan of instruction that is guided by CBSE and AWES. SAMC is our pillar of strength as our teachers focus on holistic development of our students. We shall certainly continue to implement our 'Systems Approach' to support all students by using interventions to help each child make academic progress. Progress is best assured when student, parents and school are working towards same goal. It's like when every player is an active member, the team is sure to be the best and everyone is a winner. So let's strive to be all winners!

For Summer Break Assignments, practice sheets are devised to ensure revisions for coming assessment. Kindly go to the website: www.apsbinnaguri.org and follow these steps for the same

Steps to download:

- i. Browse the website→ Home page (first page of the website)
- ii. Then check the Bulletin Board→ link will be available.

OR

Home Page→ Click on 'APS News' option→ Choose Holiday Homework option from the dropdown menu.

We would also seek your co-operation to help lift up academics. We would welcome parents to offer their names for substitute facilitators/ teachers, judges for events round the year. Kindly e-mail at apsbinnaguri1@gmail.com or give your details at Front Desk.

We truly believe that an entire community is needed to empower our students to become successful citizens. I look forward to a great year and working with such an amazing community.

Awaiting your constructive suggestions.



ARMY PUBLIC SCHOOL BINNAGURI
MATHEMATICS PRACTICE SHEET - 1, SESSION 2018-19
CLASS: VI

TIME:

MM: 25

Date:

Duration: _____ **to** _____

SECTION-A

1. Find the LCM of 12 and 18
2. Find the least number by which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.
3. The product of two whole numbers is zero. What do you conclude?
4. Find a whole number n such that $n \div n = n$.
5. Find the largest 5 digit number divisible by 16.

SECTION -B

6. Write all the factors of the following numbers:
(a) 24 (b) 15 (c) 21
(d) 27 (e) 12 (f) 20
7. Find all the multiples of 9 up to 100
8. Find the sum by suitable rearrangement:
(i) $7 + 18 + 13$
(ii) $16 + 12 + 4$
9. Write all the factors of 68.
10. How many whole numbers are there between smallest and greatest 2- digit whole number.

SECTION-C

11. Find product of largest 3- digit number and largest 5- digit number.
12. Do whole numbers hold closure property for division ? verify your answer with two examples.
13. State the property used in each of following statements:
(i) $19 \times 17 = 17 \times 19$ (iii) $1480 \times 1 = 1480$
(ii) $1732 \times 0 = 0$ (iv) $72 \times 98 + 72 \times 2 = 72 (98+2)$
14. Find the whole number n when:
(i) $n+4=9$ (iii) $n-18 =39$
(ii) $n+35= 101$ (iv) $n-20568=21403$
15. Find the difference between smallest 7- digit number and largest 4 digit number.

SECTION-D

- 16.** The town newspaper is published every day. One copy has 12 pages. Everyday 11,980 copies are printed. How many total pages are printed every day?
- 17.** A dealer purchased 139 VCRs. If the cost of each set is Rs 14350, find the cost of all the sets together.
- 18.** A housing society constructed 397 houses. If the cost of construction for each house is Rs. 35000, what is the total cost for all the houses?
- 19.** Find using distributive property.
- (i) 15×68 (ii) 17×23 (iii) $69 \times 78 + 22 \times 69$ (iv) $126 \times 55 + 126 \times 45$
- 20.** Find the product by suitable rearrangement:
- (a) $2 \times 1768 \times 50$ (b) $4 \times 166 \times 25$ (c) $8 \times 291 \times 125$
(d) $625 \times 279 \times 16$ (e) $285 \times 5 \times 60$ (f) $125 \times 40 \times 8 \times 25$
- 21.** For any whole numbers a,b,c is it true that $(a+b)+c=a+(c+b)$? Give reasons.

ARMY PUBLIC SCHOOL BINNAGURI
MATHEMATICS PRACTICE SHEET - 2, SESSION 2018-19
CLASS: VI

TIME:

MM: 25

Date:

Duration: _____ **to** _____

CHAPTER-1: KNOWING OUR NUMBERS

ANSWER THE FOLLOWING QUESTIONS

- Q1. Write the number 750687 in the expanded form.
- Q2. Determine the difference between the place values of two 7's in 3,70,14,472.
- Q3. Write the greatest and the smallest three digit numbers using the digits 7, 0 and 6. Repetition of digits is not allowed.
- Q4. Estimate the number 47,599 to its nearest thousands.
- Q5. Write in Hindu-Arabic numeral : MLXXXIV.

ANSWER THE FOLLOWING QUESTIONS

- Q1. Find the product of the face value and the place value of 8 in the number 60,38,124.
- Q2. Find the difference between greatest number of 6 digit and the smallest number of 7 digits.
- Q3. A vessel has 4 litres 500 millilitres of orange juice. In how many glasses, each of 25 ml , capacity can it be filled ?
- Q4. Write each of the following numbers in the roman numerals :
- (i) 269 (ii) 598
- Q5. Write the greatest and smallest 4-digit numbers using different digits with the condition that 5 occurs at ten's place.
- Q6. Find the difference between the number 895 and that obtained on reversing its digits.
- Q7. Write each of the following numbers in numeral form and place commas correctly.
- (a) Seventy three lakh seventy thousand four hundred seven.
- (b) Fifty eight million four hundred twenty three thousand two hundred two.
- Q8. Find the difference between the greatest and the smallest 4-digit numbers formed by the digits 0,3,6,9.

ANSWER THE FOLLOWING QUESTIONS

- Q1. Write all 4-digit numbers that can be formed with the digits 2 and 5 using both digits equal number of times . Also find their sum.
- Q2. Arrange the following numbers
- (i) 3706, 58019, 3760, 59801,560023 in ascending order.
- (ii) 9899, 8989, 9988, 9898, 8998 in descending order.
- Q3. Find the sum, difference and product of the greatest number of 4-digit and the smallest number of 5-digits.
- Q4. The distance between Anu's home and her school is 4 km 85 m Everyday she cycles both ways. Find the distance covered by her in a week.(Excluding Sunday as holiday).

Q5. A merchant had Rs 78,592 with him. He placed an order for purchasing 54 bicycles at Rs 970 each. How much money will remain with him after the purchase?

ANSWER THE FOLLOWING QUESTIONS

Q1. To stitch a shirt, 2 m 15 cm cloth is needed. Out of 40 m cloth, how many shirts can be stitched and how much cloth will remain ?

Q2. Priya Book Store sold books worth Rs 2,85,891 in the first week of June and worth Rs 4,00,768 in the second week of the same month. Then

(i) How much was the sale for the two weeks together ?

(ii) In which week was the sale greater and by how much ?

Q3. Using place value chart write the greatest and smallest number of 4-digits that can be formed by the digits 3,7,8 and 1; use each digit only once. Also find their difference .

Q4. (a) Find how many 3-digit numbers are there in all.

(b) Find how many 2-digit numbers are there between 10 and 100.

CHAPTER-2:WHOLE NUMBERS

ANSWER THE FOLLOWING QUESTIONS

Q1. Write the whole number whose successor is 379600.

Q2. Write the number whose predecessor is 72399.

Q3. Fill in the blanks with correct number : $337 + (528+1164) = (337+\dots\dots\dots)+ 1164$.

Q4. Fill in the blank with correct number to make the statement true :

$$473 \times 108 = 473 \times 100 + 473 \times \dots\dots\dots$$

Q5. State true or false:

(i) If the product of two whole numbers is zero , then at least one of them will be zero. ()

(ii) If the product of two whole numbers is 1 , then each of them must be equal to 1. ()

Q6. Fill in the blank with correct information to make the statement true

(i) If 'a' is a non-zero whole number and $a \times a = a$, then $a = \dots\dots\dots$

(ii) The additive identity of any whole numbers is $\dots\dots\dots$

ANSWER THE FOLLOWING QUESTIONS

Q1. Find the number of whole numbers lying between 99 and 300.

Q2. Write which one from the following is an example of Commutative property of addition and which one is associative law of addition ?

(i) If a and b are any two whole numbers, then $a + b = b + a$. _____

(ii) If a, b and c are any three whole numbers, then $(a + b) + c = a + (b + c)$. _____

Q3. Find the sum $837 + 509 + 363$ by suitable arrangement.

Q4. Replace each * by the correct digit in the following:

$$\begin{array}{r} 650* \\ - *0*5 \\ \hline 4*57 \end{array}$$

Q5. Using short method , find 203×9999 .

ANSWER THE FOLLOWING QUESTIONS

Q1. Find the sum of 123 , 254, 37, 105 and 5046 by suitable arrangement.

Q2. Find the value of the following by suitable arrangement :

$$81265 \times 187 - 51265 \times 87.$$

Q3. Find the value of $60678 \times 262 - 60678 \times 162$

Q4. Find the largest three-digit number which is exactly divisible by 47.

Q5. Find the value of $236 \times 414 + 236 \times 563 + 236 \times 23$ by using suitable properties.

ANSWER THE FOLLOWING QUESTIONS

Q1. Name the properties of multiplication associated with the following statements :

(i) If a and b are any two whole numbers, then $a \times b = b \times a$. _____

(ii) If a and b are any two whole numbers , then $a \times b$ is also a whole number. _____

Q2. Which least number should be added to 1000 so that 53 divides the sum exactly.

Q3. Find the greatest and least numbers of four digits which are exactly divisible by 35.

Q4. Simplify the following :

(i) $625 \times 239 \times 16$

(ii) $370 \times 1587 - 37 \times 10 \times 587$

Q5. Find the smallest 5-digit number which is exactly divisible by 279.

CHAPTER-3:PLAYING WITH NUMBERS

ANSWER THE FOLLOWING QUESTIONS

Q1. Fill in the blanks :

(i) The smallest odd prime number is

(ii) The smallest odd composite number is

Q2. State true or false:

(i) The product of three odd numbers is an odd number. ()

(ii) All prime numbers are odd. ()

Q3. Express the number 36 as the sum of two odd primes.

Q4. What is the rule of divisibility by 6 and by 9?

Q5. (i) What is the HCF of two consecutive odd numbers ?

(ii) What is the HCF of two consecutive even numbers ?

Q6. Find the prime factors of 30 and also write the prime factorisation of 30.

ANSWER THE FOLLOWING QUESTIONS

- Q1. Find the G.C.D of the numbers 180, 252, 324 by prime factorisation method.
- Q2. Find the LCM OF 24, 28 and 196 by division method.
- Q3. Examine whether the number 7136985 is divisible by 11 or not.
- Q4. Determine if 372645 is divisible by 45.
- Q5. A number is divisible by 3 and 8. By which other numbers will that number be always divisible?
- Q6. Find the prime factors of the smallest number of five digits.

ANSWER THE FOLLOWING QUESTIONS

- Q1. Find the HCF of the numbers 112, 168, 266 by division method .
- Q2. Find the LCM of the numbers 36, 40, 126 by prime factorisation method.
- Q3. Find the greatest number which can divide 257 and 329 so as to leave a remainder 5 in each case.
- Q4. Find the least number which when divided by 6, 15 and 18 leaves remainder 5 in each case.
- Q5. Three boys step off together from the same spot. The steps measure 63 cm, 70cm and 77 cm respectively. What is the minimum distance each should cover so that all can cover the same distance in complete steps.
- Q6. If the product of two numbers is 4032 and their HCF is 12 , find their LCM.

ANSWER THE FOLLOWING QUESTIONS

- Q1. The length, breadth and height of a room are 8 m 25 cm, 6 m 75 cm and 4 m 50 cm respectively. Find the longest tape which can measure the three dimensions of the room when used an exact number of times.
- Q2. Find the largest number that will divide 623, 729 and 841 leaving remainders 3, 9 and 1 respectively.
- Q3. The HCF and LCM of two numbers are 6 and 840 respectively. If one of the numbers is 42 find the other number.
- Q4. Find the least number of five digits which is exactly divisible by 32, 36 and 45.
- Q5. Traffic lights at different road crossing changes after 48 seconds, 72 seconds and 108 seconds respectively. What time will they change together again if they change simultaneously at 7 A. M. ?
- Q6. Find HCF of 180 and 336. Hence find their LCM.

ARMY PUBLIC SCHOOL BINNAGURI
MATHEMATICS PRACTICE SHEET -3 , SESSION 2018-19
CLASS: VI

TIME:

MM: 25

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Duration: _____ **to** _____

KNOWING OUR NUMBERS

SECTION-A

Select the correct answer for the given questions.

1. Identify the greatest and the smallest in 2853, 7691, 9999, 12002, 124
(a) 12002,124
(b) 9999,124
(c) 7691,124
(d) 2853,124
(e) 5432, 6922
2. Which pair has same digits at hundreds place
(a) 4232, 4331 (b) 2334, 2340 (c) 6524, 7823
3. Using digits 4, 5, 6&0 without repetition make the greatest four digit number
(a) 4560 (b) 5640 (c) 6540 (d) 6504
4. Using digits 0,1,2,3 without repetition make the smallest four digit number
(a) 0123 (b) 1023 (c) 1230 (d) 1032
5. The greatest four digit number by using any one digit twice by 3, 8 and 7 is...
(a) 3387 (b) 8378 (c) 8873 (d) 8

SECTION-B

6. How many lakhs make five billions?
7. Estimate each of the following by rounding off each number to nearest hundreds:
(a) $874+478$ (c) $11244+3507$
(b) $793+397$ (d) $17677+13589$
8. Estimate each of the following by rounding off each number to nearest hundreds:
(a) $11963-9369$ (c) $10732-4354$
(b) $76877-4354$ (d) $78203-16407$
9. Estimate each of the following by rounding off each number to nearest hundreds:
(a) 87×32 (c) 3239×28
(b) 311×113 (d) 1385×789
10. Write in roman numerals:
(i) 98 (ii) 88 (iii) 770 (iv) 176 (v) 445
(vi) 584 (vii) 743 (viii) 387 (ix) 688 (x) 675

11. Write in roman numerals:

- (a) XXX (b) XCVIII (c) LXXXVI (d) XLIX
(e) LXIII (f) XC (g) XXVIII (h) XLVIII

SECTION –C

12. Find the greatest and the smallest numbers.

- (a) 4536, 4892, 4370, 4452.
(b) 15623, 15073, 15189, 15800.
(c) 25286, 25245, 25270, 25210.
(d) 6895, 23787, 24569, 24659.

13. Use the given digits without repetition and make the greatest and smallest 4-digit numbers.

- (a) 2, 8, 7, 4 (b) 9, 7, 4, 1 (c) 4, 7, 5, 0
(d) 1, 7, 6, 2 (e) 5, 4, 0, 3

14. Arrange the following numbers in ascending order:

- (a) 847, 9754, 8320, 571 (b) 9801, 25751, 36501, 38802

15. Arrange the following numbers in descending order:

- (a) 5000, 7500, 85400, 7861 (b) 1971, 45321, 88715, 92547

16. Place commas correctly and write the numerals:

- (a) Seventy three lakh seventy five thousand three hundred seven.
(b) Nine crore five lakh forty one.
(c) Seven crore fifty two lakh twenty one thousand three hundred two.
(d) Fifty eight million four hundred twenty three thousand two hundred two.
(e) Twenty three lakh thirty thousand ten.

17. Write the predecessor of: (a) 94 (b) 10000 (c) 208090 (d) 7654321

SECTION-D

18. A box contains 2, 00,000 medicine tablets each weighing 20 mg. What is the total weight of all the tablets in the box in grams and in kilograms?

19. Population of Sundarnagar was 2, 35,471 in the year 1991. In the year 2001 it was found to be increased by 72,958. What was the population of the city in 2001?

20. In one state, the number of bicycles sold in the year 2002-2003 was 7, 43,000. In the year 2003-2004, the number of bicycles sold was 8, 00,100. In which year were more bicycles sold? And how many more?

21. Insert commas suitably and write the names according to Indian System of Numeration :

- (a) 87595762 (b) 8546283 (c) 99900046 (d) 98432701

22. Insert commas suitably and write the names according to International System of Numeration

- (a) 78921092 (b) 7452283 (c) 99985102 (d) 48049831

ARMY PUBLIC SCHOOL BINNAGURI
MATHEMATICS PRACTICE SHEET - 4, SESSION 2018-19
CLASS: VI

TIME:

MM: 25

Date:

Duration: _____ **to** _____

SECTION-A

1. Write first five multiples of 9.
2. Is sum of two prime numbers are prime? Justify your answer.
3. 1 is neither a prime number nor a composite number? Justify your answer.
4. Give the prime factorization of 1260.
5. Can two numbers have 12 as their HCF and 512 as their LCM? Justify your answer.
6. Which factors are not included in the prime factorization of a composite number?

SECTION-B

7. Find HCF of 144 and 180 by prime factorization method.
8. Find the LCM of 12,15,20,27.
9. What are twin primes? Write all the pairs of twin primes between 50 and 100.
10. Find the greatest number which divides 285 and 1249, leaving remainders 9 and 7 respectively.
11. The product of two numbers is 2160 and their HCF is 12. find LCM.

SECTION-C

12. Test the divisibility of following numbers by 2:
(i) 357986 (ii) 367314 (iii) 65487
(iv) 3657846 (v) 789650 (vi) 5554448
13. In each of the following replace * by smallest number to make it divisible by 3:
(i) $27*4$ (ii) $53*46$ (iii) $8*711$ (iv) $62*35$ (v) $234*17$
14. Test the divisibility of following numbers by 6:
(i) 934706 (ii) 251780 (iii) 872536 (iv) 46523 (v) 2070
15. Find the smallest number which when diminished by 3 is divisible by 21, 28, 36, and 45.
16. The HCF and LCM of two numbers are 131 and 8253 respectively. If one of the numbers is 917, find the other.

SECTION-D

17. In each of the following replace * by smallest number to make it divisible by 11:
(i) $26*5$ (ii) $39*43$ (iii) $86*72$ (iv) $467*91$ (v) $1723*4$
18. The length, breadth and height of a room are 1050 cm, 750 cm, and 425 cm respectively. Find the length of longest tape which can measure the three dimensions of room exactly.
19. Find the HCF of:
(i) Two prime numbers. (ii) Two consecutive numbers
(iii) Two co- prime numbers (iv) 2 and even number.

20. Determine the longest tape which can be used to measure exactly the lengths 7 m, 3 m 85 cm and 12 m 95 cm.

21. Three boys step off together from the same place. If their steps measure 36 cm, 48 cm, and 54 cm, at what distance from the starting point will they again step together?
