

INDIAN SCHOOL AL WADI AL KABIR

Class : VI

Dept. of Mathematics

HOLIDAY HOMEWORK PLAYING WITH NUMBERS

Date: 08th June, 2016

rite all prime numbers between 1 to 100.
raw a rough diagram to illustrate (i) an open curve (ii) a closed curve (iii) a polygon
d first three multiples of 12, 15 and 19.
ite all even numbers between 2 and 30 which are multiples of (i) 5 (ii) 8 s.(i) 10 ,20 ans.(ii) 16, 24
aw a polygon of 5 sides , name it in 3 different ways.
me factors of $36 = 2 \times 3 \times 6$. Is it true? Give reason.
ite all odd numbers between 3 and 30 which are also multiples of 5. Ans.15,25
d the first three common multiples of 3,5 and 6. Ans.30 ,60 ,90
ke factor tree for (a) 48 (b) 75 (c) 56 (d) 84
d the prime factors of (a) 1080 (b) 4725 (c) 945 (d) 375 (e) 1512
d the prime factors of 105. Arrange the factors in ascending order and find the relation between o consecutive factors.
ite the smallest 5- digit number and express it as a product of prime factors. It find the factors of 10000
ite the greatest 4-digit number and express it as a product of prime factors. t : find the factors of 9999
st the divisibility of numbers by 6 : (a) 72354 (b) 40083 (c) 18620 t: check the divisibility test of 2 and 3 and then decide
st the divisibility of numbers by 8 : (a) 14548 (b) 437536 (c) 169804 It : divide the last 3 digits by 8 and then decide
it it s

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	(a) Centre (b) a radius (c) a diameter (d) a chord (e) a segment (f) a sector (g) one –one point in its interior and exterior (h) a minor arc
25.	Draw any circle of radius 5 cm , label it to show the following in it.
24.	I am the smallest number having 4 different prime factors. Can you find me ? If yes, express me as a product of 2 numbers (prime× composite) in 4 different ways. hint multiply the first 4 prime numbers, then take one prime no. with the product of other three
23.	Draw a pair of (i) intersecting lines (ii) parallel lines using scale and pencil.
22.	Draw rough diagrams of two angles such that they have (a) one point in common (b) two points in common (c) three points in common (d) four points in common.
	ans. 6 minutes
21.	A toy car completes one round in a circular path in 120 seconds. Another car completes a round around another circular path in 180 seconds. Both cars started together at a same place and run in opposite directions. After how many minutes will both the cars be at the place from where they started ?
20.	Raju was arranging the chairs around the table in a hotel. He tried to arrange 4, 6 or 8 chairs around each table.In each of his attempt he found that 2 chairs were left extra. What is the minimum number of chairs he had to arrange? [answer.: 26]
	ANS.: 1 minute 24 sec., 10 times.
19.	There are 4 bells which toll at intervals of 3, 7, 12,14 seconds respectively. The 4 bells begin to toll at 12 O'clock. When will they next toll together and how often will they do so in 14 minutes? [HOTS]
	ans. LCM = 825 , 5775
18.	Find a number close to 6000 which is divisible by 33, 55, 25.
17.	Find the least number which when divided by 25, 45, 60 leaves a remainder 1 in each case. ans. 901
	ans(a) 34, 1190 (b) 17 , 6800 (c) 36 , 1080 (d) 2 , 288 (e) 7 , 980
16	Find the H.C.F. & L.C.M. of (a) 170 , 238 (b) 272, 425 (c) 72, 108, 180 (d) 18,24, 32 (e) 28,35,49
15.	Test the divisibility of numbers by 11 : (a) 61809 (b) 586949 (c) 971245 (d) 254769 hint : find the difference of the sum of odd place and even place digits and the decide
15.	Test the divisibility of numbers by 11 : (a) 61809 (b) 586949 (c) 971245 (d) 254769