EVEN AND ODD

Even - The number which is divisible by 2. E.g. 2, 4, 8, 6, 10, 12 etc.

Odd - The number which is not divisible by 2. E.g. 3, 9, 11 etc.

Exercise 9(B)

1. Fill in the blanks.

i) On diving 9 by 7, quotient = 1 and remainder = 2

ii) On dividing 18 by 6, quotient = 3 and remainder = 0.

iii) Factor of a no. is exact divisor of the no.

iv) Every number is a factor of itself.

v) Every number is a multiple of itself and 1.

vi) 1 is the factor of every no.

vii) For every no. its factors are finite and its multiples are infinite.

viii) x is a factor of y, then y is a multiple of x.

Q4. The product of 2 nos. is 36 and their sum is 13. Find the numbers.

ans: $36 = 12 \times 3$

$36 = \boxed{4 \times 9} \rightarrow 13\ (4+9)$

$36 = 6 \times 6$

$36 = 2 \times 18$

Q6. Write 2 nos. which differs by 3 and whose product is 54.

ans: $54 = 2 \times 27$

$54 = \boxed{6 \times 9} \rightarrow 3\ (9-6)$

HW 30.6.21

Q2. Write all the factors

i) 16 - 1, 2, 4, 8, 16

ii) 21 - 1, 3, 7, 21

iii) 39 - 1, 3, 13, 39

iv) 48 - 1, 2, 3, 4, 6, 8, 12, 24, 48

v) 64 - 1, 2, 4, 8, 16, 32, 64

vi) 98 - 1, 2, 7, 14, 49, 98

Q3. first six multiples.

i) 4 = 4, 8, 12, 16, 20, 24
ii) 9 = 9, 18, 27, 36, 45, 54
iii) 11 = 11, 22, 33, 44, 55, 66
iv) 15 = 15, 30, 45, 60, 75, 90
v) 18 = 18, 36, 54, 72, 90, 108
vi) 16 = 16, 32, 48, 64, 80, 196

Q5. Product of 2 nos. is 48 and sum is 16. Find the numbers.

ans 1 x 48
2 x 24
3 x 16
4 x 12 → 4 + 12 = 16

Q7. Without actual division show 7007 is divisible by 7

ans 7007 = 7000 + 7
= 7 x (1000 + 1) = 7 x 1001
= 7007.
Clearly, 7007 is divisible by 7.

Q8.

ans - 23.00023 = 2300000 ÷ 23 =
= 23 x 100000 + 23 x 1
= 23 (100000 + 1)
= 23 x 100.001
∴ 23.00023 is divisible by 23.

Q9.

i) 11011 = 10001 + 11
= 11011
∴ 11011 is divisible by 11

ii) 110011 = 100001 × 11
∴ 110011 is divisible by 11

iii) 11000011 = 10000001 × 11
∴ 110011 is divisible by 11

Q10.

i) 1608 = 1600 + 8
= 8 × 200 + 1
∴ 1608 is divisible by 8

ii) 56008 = 56000 + 8
= 8 × 7000 + 1
∴ 56008 is divisible by 8

iii) 240008 = 240000 + 8
= 8 × 30,000 + 1

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