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Exercise - 9B

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

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

iii) Factor of a number is exact divisors of the number.

iv) Every number is a factor of itself.

v) Every number is a multiple of itself.

vi) One is factor of every number.

vii) For every number, its factors are finite and its multiples are infinite.

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

2) Write the factors of:

i) 16 = 1, 2, 4, 8 and 16

ii) 21 = 1, 3, 7 and 21

iii) 39 = 1, 3, 13 and 39

iv) 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48

v) 64 = 1, 2, 4, 8, 16, 32 and 64

vii) 98 = 1, 2, 7, 14, 49 and 98

3) Write the first six [redacted] multiples of:

i) 4 = 4 x 1 = 4, 4 x 2 = 8, 4 x 3 = 12, 4 x 4 = 16, 4 x 5 = 20
4 x 6 = 24

ii) 9 =
9 x 1 = 9
9 x 2 = 18
9 x 3 = 27
9 x 4 = 36
9 x 5 = 45
9 x 6 = 54

iii) 11 =
11 x 1 = 11
11 x 2 = 22
11 x 3 = 33
11 x 4 = 44
11 x 5 = 55
11 x 6 = 66

iv) 15 =
15 x 1 = 15
15 x 2 = 30
15 x 3 = 45
15 x 4 = 60
15 x 5 = 75
15 x 6 = 90

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v) 18 =

$18 \times 1 = 18$

$18 \times 2 = 36$

$18 \times 3 = 54$

$18 \times 4 = 72$

$18 \times 5 = 90$

$18 \times 6 = 108$

vi) 16 =

$16 \times 1 = 16$

$16 \times 2 = 32$

$16 \times 3 = 48$

$16 \times 4 = 64$

$16 \times 5 = 80$

$16 \times 6 = 96$

5)

5) The product of two numbers = 48

The sum of two numbers = 16

$4 \times 12 = 48$

$4 + 12 = 16$

So, the two numbers are 4 and 12.

6) Two numbers which differ by = 3

The product of two numbers = 54

$9 \times 6 = 54$

So, the two numbers are 9 and 6.

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8) $2300023 = 2300000 + 23$

$= 23(1000000 + 1) = 23 \times 10000001 + 23$

So, 2300023 is divisible by 23

10) i) $1608 = 1600 + 8 = 8(200+1) = 8 \times 201$

ii) $56008 = 56000 + 8 = 8(7000 + 1 = 8 \times 7001$

iii) $240008 = 240000 + 8 = 8(30000 + 1) = 8 \times 30001$