11:20
24/6/21

Exercise — 5(c)

1. Find which of the following numbers are divisible by 2:

(i) 192 = Here, ~~unit~~ digit is 2. So, it.

(ii) 1660

(iii) 1101

(iv) 2079

A number having its unit digit 2, 4, 6, 8 or 0 is divisible by 2. So, numbers 192 and 1660 are all divisible by 2.

2. Find which of the following numbers are divisible by 3:

(i) 261 (ii) 111 (iii) 6657 (iv) 2574

A number divisible by 3 if the sum of all digits is divisible by 3. So, all the given numbers are divisible by 3.

(i) $261 = 2+6+1 = 9$ is divisible by 3.

(ii) $111 = 1+1+1 = 3$ is divisible by 3.

(iii) $6657 = 6+6+5+7 = 24$ is divisible by 3.

(iv) $2574 = 2+5+7+4 = 18$ is divisible by 3.

3. Find which of the following numbers are divisible by 4:

(i) 360 (ii) 3180 (iii) 5348 (iv) 7456

A number is divisible by 4 if the number formed by last two digits is divisible by 4. So, all the given numbers are divisible by 4.

4. Find which of the following numbers are divisible by 5:

(i) 3250 (ii) 5557 (iii) 39255 (iv) 8204

A number divisible by 5 if its unit digit is 0 and 5. So, 3250 and 39255 is divisible by 5.

5. Find which of the following numbers are divisible by 10:

(i) 5100 (ii) 4612 (iii) 3400 (iv) 8399

A number divisible by 10 if its unit digit is zero.

So, 5100 and 3400 is divisible by 10.

6. Find which of the following numbers are divisible by 11:

(i) 2563 (ii) 8307 (iii) 95635

A number is divisible by 11, if the difference between the sum of even places and sum of digit in odd places is either 0 or divisible by 11.

(i) 2563 $= 2+6-5+3$

$= 8-8$

$= 0$.

Yes it is divisible by 11.

(ii) 8307 = 8+0−3+7

= 8−10

= −2

Not divisible by 11.

(iii) 95635 = 9+3+5−5+3

= 17−8

= 9

Not divisible by 11.