

Maths (Playing with Number)
Exercise 5(C) Home work

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

(i) 192

Ans) Unit digit of 192 = 2

$\therefore 2$ is an even number.

\therefore So, the number 192 is divisible by 2.

(ii) 1660

Ans) Unit digit = 0

$\therefore 0$ is divisible by 2.

\therefore So, the number 1660 is divisible by 2.

(iii) 1101

Ans) Unit digit = 1

$\therefore 1$ is an odd number.

\therefore So, the number 1101 cannot be divisible by 2.

(iv) 2079

Ans) Unit digit = 9

$\therefore 9$ is an odd number.

So, ~~that~~ the number 2079 cannot be divisible by 2.

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

i) 261

Ans) Sum of the digits = $2 + 6 + 1 = 9$

$\therefore 9$ is divisible by 3 \Rightarrow The number 261 is divisible by 3.

ii) 777

Ans) Sum of the digits = $7 + 7 + 7 = 21$

$\therefore 21$ is divisible by 3 \Rightarrow The number 777 is divisible by 3.

iii) 6657

Ans) Sum of the digits = $6 + 6 + 5 + 7 = 24$

$\therefore 24$ is divisible by 3 \Rightarrow The number 6657 is divisible by 3.

iv) 2574

Ans) Sum of the digits = $2 + 5 + 7 + 4 = 18$

$\therefore 18$ is divisible by 3 \Rightarrow The number 2574 is divisible by 3.

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

i) 360

Ans) $\because 60$ is divisible by 4 $\Rightarrow 360$ is divisible by 4.

ii) 3180

Ans) $\because 80$ is divisible by 4 $\Rightarrow 3180$ is divisible by 4.

iii) 5348

Ans) $\because 48$ is divisible by 4 $\Rightarrow 5348$ is divisible by 4.

iv) 7756

Ans) $\because 56$ is divisible by 4 $\Rightarrow 7756$ is divisible by 4.

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

i) 3250

Ans) Unit digit = 0

$\therefore 0$ is divisible by 5 \Rightarrow The number 3250 is divisible 5.

i) 5557

Ans Unit digit = 7

$\therefore 7$ is not divisible by 5 \Rightarrow The number 5557 is not divisible by 5.

ii) 39255

Ans Unit digit = 5

$\therefore 5$ is divisible by 5 \Rightarrow The number 39255 is divisible by 5.

iv) 8204

Ans Unit digit = 4

$\therefore 4$ is not divisible by 5 \Rightarrow The number 8204 is not divisible by 5.

5. Find which of the following numbers are divisible

by 10:

i) 5100

Ans Unit digit = 0

$\therefore 0$ is divisible by 10 \Rightarrow 5100 is divisible by 10

ii) 4612

Ans) Unit digit = 2

$\therefore 2$ is not divisible by $10 \Rightarrow 4612$ is not divisible by 10 .

iii) 3400

Ans) Unit digit = 0

$\therefore 0$ is divisible by $10 \Rightarrow 3400$ is divisible by 10 .

iv) 8399

Ans) Unit digit = 9

$\therefore 9$ is not divisible by $10 \Rightarrow 8399$ is divisible by 10 .

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

i) 2563

Ans) Sum of odd digits = $3 + 5 = 8$

Sum of even digits = $6 + 2 = 8$

Difference between these two sum = $8 - 8 = 0 \Rightarrow 2563$ is divisible by 11.

ii) 8307

Ans) Sum of odd digits = $7+3=10$

Sum of even digits = $0+8=8$

Difference between these two sum = $10-8=2$
 $\Rightarrow 8207$ is not divisible by 11.

Ans) ^{odd} 95, 635

Ans) Sum of odd digits = $5+6+9=20$

Sum of even digits = $3+5=8$

Difference between these two sum = $20-8=12$
 $\Rightarrow 95635$ is not divisible by 11.