Chapter-9

Tests of divisibility

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Worksheet

A. 1. A number is divisibility by 10, if its last digit is zero.

2. A number is divisible by 9, if the sum of its digit is divisible by 9 (just like 3)

3. A number is divisible by 6, if it is divisible by 2 and 3.

4. A number is divisible by 5, if its last digit is either 5 or 0

5. A number is divisible by 3, if the sum of digits is divisible by 3

B. 6. Ans: ~~The~~ numbers ~~which~~

Even Numbers: Numbers having 2, 4, 6, 8 and 0 as their one's digit are known as even numbers.

e.g. 2, 4, 6, 12, 78, 438, 1744, 1800, etc.

7. Ans: Odd numbers: Numbers having 1, 3, 5, 7 and 9 as their one's digit are known as odd numbers.

e.g. 3, 9, 47, 139, 665, 2481 etc.

8. Ans: 52, 54, 56, 58, 60, 62, 64, 66, 68, ~~7~~

9. Ans: 81, 83, 85, 87, 89, 91, 93, 95, 97.

10 Ans: D. A number is divisible by 4 if the number formed by

its last two digits is divisible by 4 or if the last two digits are both zeroes, e.g. 116, 300, 46 2148, 6100, etc.

C. 11. 7, 230 $7+2+3+0=12$

$3 \times 4 = 12$, Yes it is divisibility by 3.

12. 52, 361 $5+2+3+6+1=17$

No, it is divisibility not by 9

13. 78, 684 → 84

$$4\overline{)84}\ 21,\quad -8,\quad 04,\quad -4,\quad 0$$

Yes, it is divisible by 4.

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07.0

14. 2812 → divisible by 2, 2×1=2

2+8+1+2=13

but not divisible by 3.

then the number is not divisible by 6.

15. 39,655 → 5×1=5

LAST DIGIT = 5

Then it divisible by 5.