Chapter 3: Factors and Multiples, Class 3



CLASS NOTES-ANSWERS

Exercise 3.1

Complete the table by checking whether the given number is divisible by
3, 4, 5, 6, 8, 9 and 10. Tick (√) if it is divisible and cross (𝑥) if it is not divisible.

Answer:

Number	2	3	4	5	6	8	9	10
a. 1024	\checkmark	X	\checkmark	X	X	\checkmark	X	X
b. 1827	X	\checkmark	X	×	X	X	\checkmark	X
c. 2836	\checkmark	×	ARD	ENXSC	×	×	×	×
d. 4865	×	×	×	~	XO	×	×	×
e. 7830	\checkmark		×	X√ GX		X	\checkmark	\checkmark
f. 8598	\checkmark		×	X	130	X	×	×
g. 9350	\checkmark	X	X	1	X	X	X	\checkmark

2. Replace # in the number 273# by the smallest possible digit so that the number formed is divisible by 11.

Answer: The smallest possible digit is 9 so that the number formed is divisible by 11. (Since 2 + 3 = 5 and 7 + 9 = 16. Their difference is 16 - 5 = 11 is divisible by 11)

- ∴ 2739 is divisible by 11.
- 3. Replace # in the number 738# by the smallest possible digit so that the number formed is divisible by 3 but not by 6.

Answer: The smallest possible digit is 3 so that the number formed is divisible by 3 but not by 6. (since 7 + 3 + 8 + 3 = 21, is divisible by 3. but

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7383 is not divisible by 2)

 \therefore The number is 7383.

4. Which of the following numbers are divisible by 2, 5 and 6?

a. 1820	b. 6435	c. 3780	d. 4332
e. 9680	f. 8195	g. 9960	h. 3789

Answer:

Number	2	5	6
a. 1820	\checkmark	\checkmark	
b. 6435		\checkmark	
c. 3780	1	~	\checkmark
d. 4332	ARJEN	SC	\checkmark
e. 9680		, CA	
f. 8195			
g. 9960	CA		\checkmark
h. 3789		508	
	775.		

(c) 3780 and (g) 9960 are both divisible by 2, 5 and 6.

5. Which of the following numbers are divisible by 3, 4 and 9?

a. 4740	b. 3648	c. 7980	d. 5893
e. 7612	f. 7764	g. 8394	h. 8496

Answer:

Number	3	4	9
a. 4740	\checkmark	\checkmark	
b. 3648	\checkmark	\checkmark	
c. 7980	\checkmark	\checkmark	
d. 5893			
e. 7612		\checkmark	

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f. 7764	\checkmark	\checkmark	
g. 8394	\checkmark		
h. 8496	\checkmark	\checkmark	\checkmark

(h) 8496 is divisible by 3, 4 and 9.

6. Check if the number 4572 is divisible by both 4 and 8.

Answer:

4572 is divisible by 4 because the last two digits, 72 is divisible by 4 (72 \div

4 = 18).

But 4572 is not divisible by 8 because the last three digits, 572 is not divisible by 8.

7. State whether the following statements are True or false.

a. A number divisible by 10 is always even.

- b. A number divisible by 18 must be divisible by 2 and 9.
- c. A number divisible by 5 is always odd.
- d. A number divisible by 2, 3 and 6 must be divisible by 36.

Answer:

- a. True
- b. True
- c. False
- d. False