Vidya bhawan Balika Vidyapeeth Lakhisarai

Class VII   **Subject Mathematics**   **Date: 28/04/2021**

Multiplication and Division of Integers

MULTIPLICATION

RULE 1: The product of a positive integer and a negative integer is negative.
RULE 2: The product of two positive integers is positive.
RULE 3: The product of two negative integers is positive.
Examples:
Rule 1: 1. $(+4) \times (-2) = -8$
2. $(-2) \times (+5) = -10$
Rule 2: 1. $(+6) \times (+8) = +48$
 2. $(+6) \times (+2) = +12$
Rule 3: 1. $(-6) \times (-8) = +48$
2. $(-2) \times (-4) = +8$

DIVISION

RULE 1: The quotient of a positive integer and a negative integer is negative.
RULE 2: The quotient of two positive integers is positive.
RULE 3: The quotient of two negative integers is positive.

Examples:
Rule 1: 1. $(-8) / (+4) = -2$
 2. $(-12) / (+6) = -2$
Rule 2: 1. $(+6) / (-3) = -2$
2. $(+24) / (-6) = -4$
Rule 3. 1. $(+9) / (+3) = +3$
 2. $(+16) / (+4) = +4$
Rule 4: 1. $(-6) / (-2) = +3$
2. $(-42) / (-7) = +6$

SUMMARY OF MULTIPLICATION AND DIVISION RULES

1. If the signs are different the answer is negative.

2. If the signs are alike the answer is positive.

Problems:

1. $(+3) \times (-1) =$ _____
2. $(+7) \times (+6) =$ _____
3. $(-5) \times (-5) =$ _____
4. $(-8) \times (-6) =$ _____
5. $(-12) \times (+5) =$ _____
6. $(+16) \times (0) =$ _____
7. $(-30) \times (-3) =$ _____
8. $(-18) \times (+23) =$ _____

9. (-40) x (-4) = _____
10. (-11) x (+4) = _____
11. (+3) x (-8) = _____
12. (+15) x (0) = _____
13. (-7) x (-4) = _____
14. (+9) x (+8) = _____
15. (+9) / (+3) = _____
16. (+10) /(-5) = _____
17. (-12) / (-3) = _____
18. (-25) / (+5) = _____
19. (-45) / (+15) = _____
20. (-18) / (-6) = _____
21. (+52) / (13) = _____
22. (-30) / (+10) = _____
23. (+14) / (-2) = _____
24. (+16) / (-4) = _____
25. (-42) / (+7) = _____
26. (4) / (2) = _____
27. 0 / (-7) = _____
28. 0 / (6) = _____