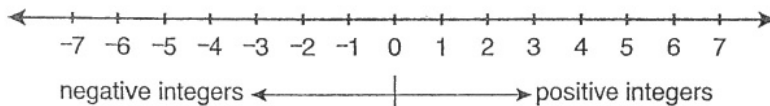


HW
Pre-AP

Integers and Opposites

Integers are the set of whole numbers and their **opposites**. Integers can be shown on a number line. **Positive** integers are greater than 0. **Negative** integers are less than 0.



The integer -5 is read *negative five*. The integer 5 can also be written as $+5$, or *positive five*. These two integers, 5 and -5 , are opposites.

Positive and negative numbers are used in many everyday situations.

| | |
|------------------|-------------|
| 10° below zero | -10 |
| loss of \$7 | -7 |
| gain of 12 yards | +12 or 12 |
| profit of \$100 | +100 or 100 |

Write the opposite of each integer.

- | | | | |
|--------|-------|--------|-------|
| 1. 4 | 2. -7 | 3. -21 | 4. 45 |
| _____ | _____ | _____ | _____ |
| -4 | | | |
| 5. -19 | 6. 33 | 7. -66 | 8. 0 |
| _____ | _____ | _____ | _____ |

Write an integer to describe each situation.

- | | | |
|------------------------------|---------------------------|------------------------------|
| 9. 33° above zero | 10. 8° below zero | 11. deposit of \$150 |
| _____ | _____ | _____ |
| +33 | | |
| 12. loss of 10 yards | 13. gain of 6 yards | 14. profit of \$88 |
| _____ | _____ | _____ |
| 15. 3,500 ft above sea level | 16. 50 ft below sea level | 17. up 7 floors |
| _____ | _____ | _____ |
| 18. down 4 floors | 19. debt of \$30 | 20. 9 units to the left of 0 |
| _____ | _____ | _____ |