

Name: _____

Solving Equations Using Addition or Subtraction

Solve the equation. Check your solution.

1) $x + 4 = 10$

2) $t + 9 = -5$

3) $u - 3 = 6$

4) $y - 7 = -2$

5) $16 = a + 25$

6) $-70 = b - 30$

7) $y + 9 = 0$

8) $-2 = z + 6$

9) $x + 7 = 12$

10) $37 = c - 29$

11) $a - 5 = 8$

12) $p - 24 = -53$

13) $21 + m = 4$

14) $b - 14 = -3$

15) $n - 72 = 72$

16) $q + 8 = 57$

17) $28 = g + 28$

18) $r - 23 = -6$

19) $216 = u - 129$

20) $-13 + t = 10$

Solve the equation. Check your solution.

21) $a + 5 + 8 = 20$

22) $3 + c + 6 = -9$

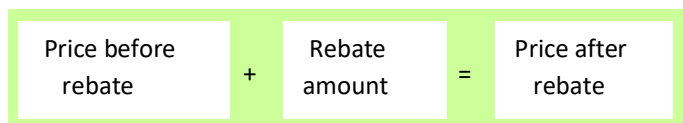
23) $9 + x - 4 = 2$

24) $-5 = -17 + y + 8$

25) $0 = r + 7 - 32$

26) $n - 6 - 1 = 5$

27) The advertised price of a DVD player is \$185 after a \$30 mail-in rebate. Using the verbal model below, write and solve an equation to find the price of the DVD player before the rebate is applied.



- 28) When attacked by a giant hornet, Japanese honeybees cluster together to form a ball around the hornet and then generate heat by buzzing. The honeybees can endure temperatures of up to 48°C , which is 3°C greater than the hornet can tolerate. Find the maximum temperature tolerated by a Japanese giant hornet.
- 29) The Great Pyramid in Egypt was built around 2560 B.C. Over the years, it has lost 30 feet of height off its top and is now 451 feet tall. Find the original height of the Great Pyramid.
- 30) Cepheid stars appear to pulsate because they expand and contract in size. In its contracted phase, the Cepheid star Zeta Geminorum is 51 million miles across. This is 5 million miles less than the star's distance across in its expanded phase. Find the distance across Zeta Geminorum in its expanded phase.