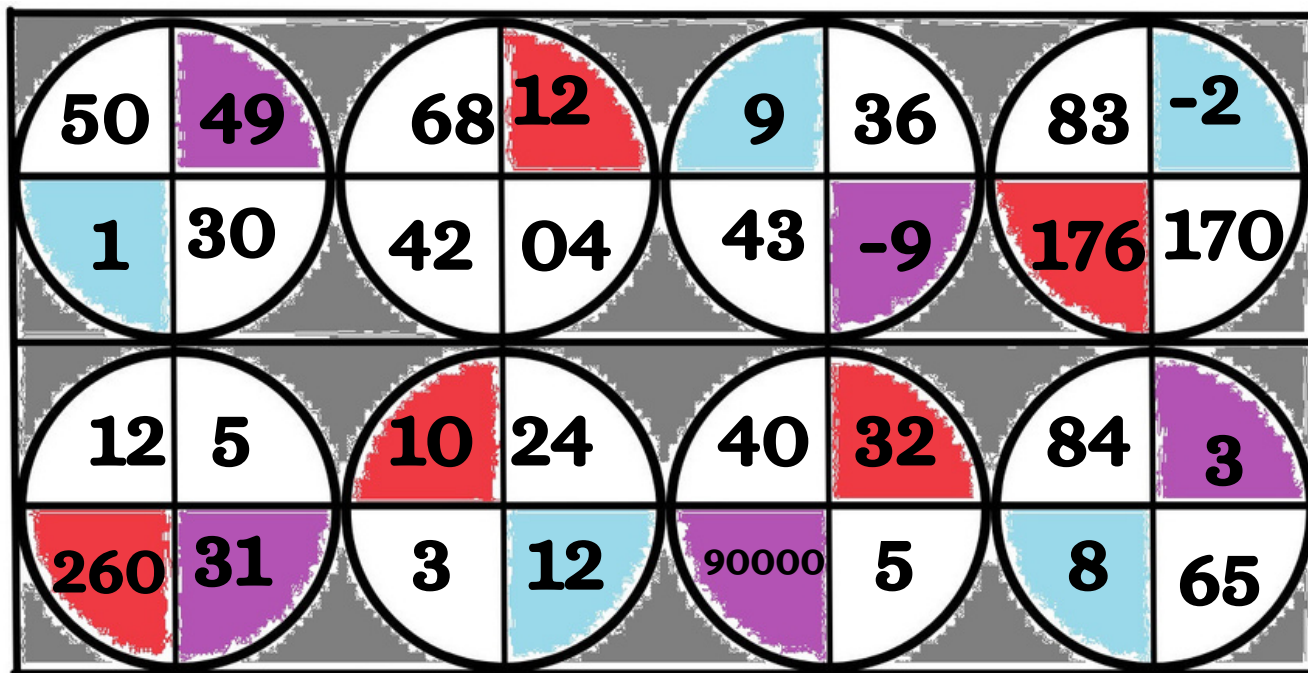


# Answers



**1.**  $f(x) = (x+1) \times 4$   
 $f(2) = (2+1) \times 4$   
 $= 3 \times 4 = 12$

**6.**  $m(h) = \frac{1}{6}(h^2 + h^2)$   
 $m(6) = \frac{1}{6}(6^2 + 6^2)$   
 $= \frac{1}{6} \times 72 = 12$

**11.**  $y(z) = z^{z-5}$   
 $f(7) = 7^{7-5}$   
 $= 7^2 = 49$

**2.**  $f(y) = 2y + y$   
 $f(3) = 2(3) + 3$   
 $= 6 + 3 = 9$

**7.**  $b(g) = 4(g-1) + g$   
 $g(8) = 4(8^2 - 1) + 8$   
 $= 4(64 - 1) + 8$   
 $= 4 \times 63 + 8 = 260$

**12.**  $p(q) = \frac{q}{4} - \frac{q}{7}$   
 $p(28) = \frac{28}{4} - \frac{28}{7}$   
 $= \frac{196 - 112}{28} = \frac{84}{28} = 3$

**3.**  $g(n) = 2n - 1$   
 $g(0) = 2(0) - 1$   
 $= 0 - 1 = -1$

**8.**  $m(h) = h^2 + h^2$   
 $m(4) = 4^2 + 4^2$   
 $= 16 + 16 = 32$

**13.**  $y(z) = z^2 - 2^2 + 10$   
 $y(5) = 5^2 - 2^2 + 10$   
 $= 25 - 4 + 10 = 31$

**4.**  $w(x) = x + 2 + x$   
 $w(3) = 3 + 2 + 3 = 8$

**9.**  $q(p) = p^3 - 40$   
 $q(6) = 6^3 - 40$   
 $= 216 - 40 = 176$

**14.**  $w(a) = (a^2)(12^2)(a^{-2})$   
 $w(-5) = (-5^2)(144)(-5^{-2})$   
 $= 25 \times 144 \times 25 = 90,000$

**5.**  $f(t) = t - 2(3)$   
 $f(4) = 4 - 2(3)$   
 $= 4 - 6 = -2$

**10.**  $f(p) = 14 - 2^p$   
 $f(2) = 14 - 2^2$   
 $= 14 - 4$

**15.**  $f(x) = (x+2) \times (-3)$   
 $f(1) = (1+2) \times (-3)$   
 $= 3 \times (-3) = -9$