

正の数と負の数の計算（乗法）（解答と解説）

1 解答 (1) +10 (2) +24 (3) +4 (4) +28

$$(1) (+2) \times (+5) = +(2 \times 5) \\ = +10$$

$$(2) (+8) \times (+3) = +(8 \times 3) \\ = +24$$

$$(3) (-2) \times (-2) = +(2 \times 2) \\ = +4$$

$$(4) (-4) \times (-7) = +(4 \times 7) \\ = +28$$

2 解答 (1) -12 (2) -7 (3) -45 (4) -42

$$(1) (+4) \times (-3) = -(4 \times 3) \\ = -12$$

$$(2) (+1) \times (-7) = -(1 \times 7) \\ = -7$$

$$(3) (-5) \times (+9) = -(5 \times 9) \\ = -45$$

$$(4) (-7) \times (+6) = -(7 \times 6) \\ = -42$$

3 解答 (1) -30 (2) +65 (3) 0 (4) -64 (5) +119 (6) -75

(7) +120 (8) -180

$$(1) (-10) \times (+3) = -(10 \times 3) \\ = -30$$

$$(2) (-5) \times (-13) = +(5 \times 13) \\ = +65$$

$$(3) 0 \times (-18) = 0$$

$$(4) (+16) \times (-4) = -(16 \times 4) \\ = -64$$

$$(5) (+7) \times (+17) = +(7 \times 17) \\ = +119$$

$$(6) (-25) \times (+3) = -(25 \times 3) \\ = -75$$

$$(7) (-5) \times (-24) = +(5 \times 24) \\ = +120$$

$$(8) (+12) \times (-15) = -(12 \times 15) \\ = -180$$

4 解答 (1) 24 (2) -120 (3) -60

$$(1) 4 \times (-2) \times (-3) = +(4 \times 2 \times 3) \\ = 24$$

$$(2) 3 \times (-5) \times 8 = -(3 \times 5 \times 8) \\ = -120$$

$$(3) -2 \times (-5) \times (-6) = -(2 \times 5 \times 6) \\ = -60$$

5 解答 (1) 25 (2) 27 (3) 4 (4) 16 (5) -4 (6) -16

$$(1) 5^2 = 5 \times 5 \\ = 25$$

$$(2) 3^3 = 3 \times 3 \times 3 \\ = 27$$

$$(3) (-2)^2 = (-2) \times (-2) \\ = 4$$

$$(4) (-4)^2 = (-4) \times (-4) \\ = 16$$

$$(5) -2^2 = -(2 \times 2) \\ = -4$$

$$(6) -4^2 = -(4 \times 4) \\ = -16$$

6 解答 (1) -77 (2) $+70$ (3) 16

$$(1) (+7) \times (-11) = -(7 \times 11) \\ = -77$$

$$(2) (-14) \times (-5) = +(14 \times 5) \\ = +70$$

$$(3) -2^2 \times (-4) = -4 \times (-4) \\ = 16$$

7 解答 (1) 1 (2) $-\frac{8}{27}$ (3) 50 (4) 108 (5) -64

$$(1) (-1)^4 = (-1) \times (-1) \times (-1) \times (-1) \\ = 1$$

$$(2) \left(-\frac{2}{3}\right)^3 = \left(-\frac{2}{3}\right) \times \left(-\frac{2}{3}\right) \times \left(-\frac{2}{3}\right) \\ = -\frac{8}{27}$$

$$(3) (-5)^2 \times 2 = 25 \times 2 \\ = 50$$

$$(4) -2^2 \times (-3)^3 = -4 \times (-27) \\ = 108$$

$$(5) (-4)^2 \times (-2^2) = 16 \times (-4) \\ = -64$$