

73
113 2

Dodawanie liczb całkowitych

1. Oblicz:

| | | |
|-------------------|--------------------|--------------------|
| a) $6 + (-2) = 4$ | b) $4 + (-6) = -2$ | c) $(-9) + 1 = -8$ |
| $(-9) + 2 = -7$ | $5 + (-1) = 4$ | $9 + (-1) = 8$ |
| $(-8) + 4 = -4$ | $(-2) + 2 = 0$ | $7 + (-3) = 4$ |
| $5 + (-3) = 2$ | $5 + (-8) = -3$ | $(-2) + 8 = 6$ |

2. Oblicz:

| | | |
|-----------------------|-----------------------|-----------------------|
| a) $(-4) + (-3) = -7$ | b) $71 + (-10) = 61$ | c) $(-13) + 37 = 24$ |
| $(-9) + 3 = -6$ | $(-65) + (-20) = -85$ | $75 + (-22) = 53$ |
| $5 + (-5) = 0$ | $(-12) + 14 = 2$ | $(-46) + (-34) = -80$ |
| $(-20) + 17 = -3$ | $80 + (-20) = 60$ | $(-25) + 59 = 34$ |

3. W tabelce wpisz znak +, jeśli wynik dodawania jest liczbą dodatnią, a znak -, gdy wynik dodawania jest liczbą ujemną.

| | | | | | | | |
|----|----|----|---|---|----|---|---|
| + | -2 | -5 | 3 | 9 | -1 | 2 | 0 |
| -4 | - | - | - | + | - | - | - |
| -6 | - | - | - | + | - | - | - |
| 4 | + | - | + | + | + | + | + |
| 17 | + | + | + | + | + | + | + |

4. Uzupełnij:

| | |
|-----------------|------------------|
| $(-7) + 14 = 7$ | $7 + (-14) = -7$ |
| $7 + (-7) = 0$ | $(-7) + 0 = -7$ |

5. Uzupełnij:

| | | | | | |
|----|----|----|----|-----|-----|
| | 20 | 16 | 12 | 8 | 4 |
| | 15 | 11 | 7 | 3 | -1 |
| | 10 | 6 | 2 | -2 | -6 |
| | 5 | 1 | -3 | -7 | -11 |
| +5 | 0 | -4 | -8 | -12 | -16 |

+(-4) →

6. Podkreśl w każdej ramce największą sumę na zielono, a najmniejszą na niebiesko.

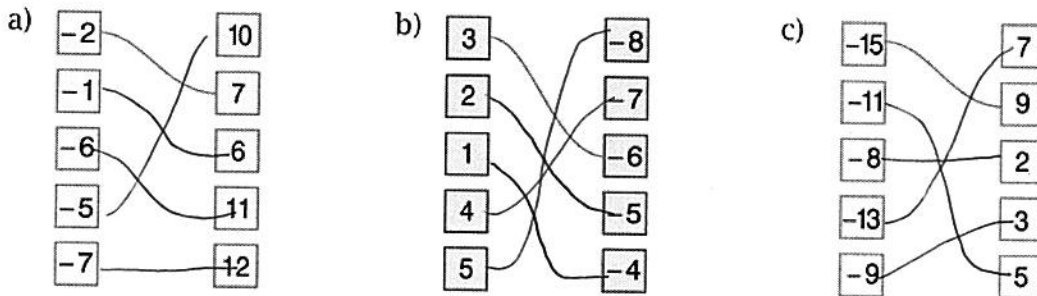
$$(-27) + 15$$

$$\frac{(-27) + (-15)}{\text{niebieski}} \quad \frac{27 + (-15)}{\text{zielone}}$$

$$\frac{62 + (-37)}{\text{zielone}} \quad \frac{(-37) + (-62)}{\text{niebieski}}$$

$$37 + (-62)$$

7. Połącz liczby w pary, tak aby sumy wszystkich par liczb były jednakowe.



8. Oblicz:

a) $(-6) + (-3) + 2 = -7$

c) $(-11) + 6 + (-3) = -8$

b) $(-5) + 8 + (-12) = -9$

d) $10 + (-7) + (-8) = -5$

9. Oblicz sprytnie:

$(-1) + (-2) + (-3) + (-4) + (-5) + (-6) + 6 + 5 + 4 + 3 + 2 + 1 = 0$

$(-6) + (-7) + (-8) + (-9) + 16 + 17 + 18 + 19 = 40$

$(-1) + 2 + (-3) + 4 + (-5) + 6 + (-7) + 8 + (-9) + 10 + 11 = 16$

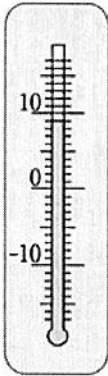
10. Wiedząc, że $1791 + 869 = 2660$ i że $1791 - 869 = 922$, uzupełnij:

$1791 + (-869) = 922$ $(-1791) + 869 = -922$ $(-1791) + (-869) = -2660$

73
113 2

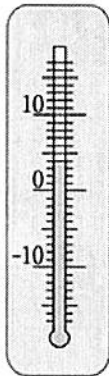
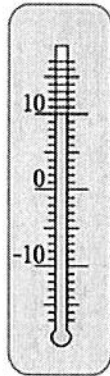
Odejmowanie liczb całkowitych

1. Zaznacz kolorem czerwonym temperatury o 7°C niższe od temperatur podanych na termometrach. Uzupełnij wyniki odejmowania.



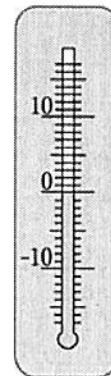
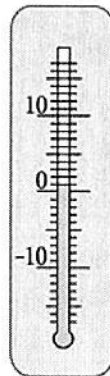
$$9 - 7 = 2$$

$$10 - 7 = 3$$



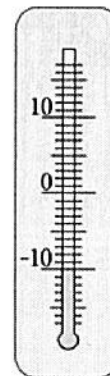
$$4 - 7 = -3$$

$$1 - 7 = -6$$



$$0 - 7 = -7$$

$$(-10) - 7 = -17$$



2. Zamień odejmowanie na dodawanie liczby przeciwnej i oblicz:

$$\text{a) } (-7) - 3 = (-7) + (-3) = -10$$

$$\text{b) } 4 - (-5) = 4 + 5 = 9$$

$$(-4) - 8 = (-4) + (-8) = -12$$

$$(-2) - (-3) = -2 + 3 = 1$$

$$7 - 10 = 7 + (-10) = -3$$

$$19 - (-9) = 19 + 9 = 28$$

$$9 - 11 = 9 + (-11) = -2$$

$$(-1) - (-15) = -1 + 15 = 14$$

3. Zamień odejmowanie na dodawanie liczby przeciwnej. Odszukaj odpowiednie litery i wpisz je w kółka.

| | | | | | | | | |
|------------|------------|---------|---------------|---------------|---------------|---------------|------------|------------|
| | $(-3) - 8$ | | $3 - 8$ | | $3 - 8$ | | $(-6) - 2$ | |
| $8 - 3$ | | $8 - 3$ | | $(-2) - (-6)$ | | $(-6) - (-2)$ | | $8 - (-3)$ |
| D | O | 2 | A | W | A | N | I | E |
| $3 + (-8)$ | $8 + (-3)$ | $8 + 3$ | $(-6) + (-2)$ | $(-6) + 2$ | $(-3) + (-8)$ | $(-2) + 6$ | | |
| A | D | E | I | N | O | W | | |

4. Oblicz:

a) $(-6) - (-8) = -6 + 8 = 2$

$7 - (-3) = 7 + 3 = 10$

$(-14) - 6 = -20$

$9 - 12 = -3$

b) $(-3) - 10 = -13$

$(-11) - (-9) = -11 + 9 = -2$

$(-8) - (-7) = -8 + 7 = -1$

$(-9) - 2 = -11$

c) $13 - (-13) = 13 + 13 = 26$

$(-40) - (-40) = -40 + 40 = 0$

$(-22) - 40 = -62$

$(-53) - 30 = -83$

d) $(-60) - (-30) = -60 + 30 = -30$

$(-180) - 20 = -200$

$710 - (-10) = 710 + 10 = 720$

$(-150) - (-200) = -150 + 200 = 50$

5. Uzupełnij tabelki.

| | | | | | | | | | | |
|-----|----|-----|----|-----|-----|----|----|-----|----|-----|
| -10 | 2 | -6 | 7 | 0 | -16 | 6 | 13 | -2 | 10 | -55 |
| | -8 | -16 | -3 | -10 | -26 | -4 | 3 | -12 | 0 | -65 |

| | | | | | | | | | | |
|-------|----|----|---|----|----|----|----|-----|-----|---|
| -(-5) | -2 | 15 | 1 | -6 | -8 | -1 | -5 | -14 | -70 | 0 |
| | 3 | 20 | 6 | -1 | -3 | 4 | 0 | -9 | -65 | 5 |

6. Sprawdź obliczenia. Przekreśl nieprawidłowe wyniki i wpisz poprawne.

a) $(-5) + 4 = -1$

b) $(-7) + 7 = 0$

c) $3 - 9 = \cancel{6} - 6$

d) $10 - (-8) = \cancel{2} 18$

e) $(-10) + (-2) = -12$

f) $16 - (-9) = \cancel{7} 25$

g) $(-8) + 8 = \cancel{16} 0$

h) $(-14) + (-3) = -17$

7. Uzupełnij:

a) $-2 - 9999 = -10001$

b) $(-4000) - (-9000) = 5000$

c) $(-1) - 98 = -99$

d) $3001 - (-999) = 4000$