

REKENEN MET GETALLEN | negatieve getallen

1 ▶

vriezen: -5°C
schuld: -5 euro

-5 Het getal "min vijf"
 $+5$ Het getal "plus vijf"

Het teken hoort bij het getal!

2 ▶

Omcirkel alle negatieve getallen

$-3 + -5 - 6 + 7 = +5$
 $+4 - 3 + 7 - 9 = -1$
 $-100 - 200 + 1000 = +700$
 $-25 + -30 = -55$
 $100 - 300 = -200$

3 ▶

Omcirkel alle positieve getallen en alle negatieve getallen

$+20 - 25 - 30 = -35$
 $+40 - 41 + 20 = +19$
 $-100 - 150 + 1 = -249$
 $+70 - 80 = -10$
 $+70 + 80 = +150$

4 ▶

$7 < 100$
"7 is kleiner dan 100"

$3 > 1$
"3 is groter dan 1"

Het kleinste getal staat bij het puntje.

5 ▶

Lees de regels hardop voor

$5 < 1000$
vijf is kleiner dan 1000

$-3 < 0$
min drie is kleiner dan nul

$-3 > -7$
min drie is groter dan min zeven

$15 > 0$
vijftien is groter dan nul

$-2\,000\,000 < 2$
min twee miljoen is kleiner dan twee

6 ▶

Zet $<$ of $>$ tussen de getallen

$3 < 7$	$15 < 100$
$20 > 19$	$200 > 100$
$25 < 100$	$1 > 0$
$0 < 2$	$20 < 50$
$1 < 5$	$-5 < 0$

7 ▶

groter

kleiner

8 ▶

Zet $<$ of $>$ tussen de getallen

$-5 > -8$	$-26 > -29$
$-200 < +300$	$25 > -3$
$-571 > -701$	$+71 < +81$
$+2 > -104$	$-52 > -371$
$-21 < -19$	$0 > -1$

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4 ▶

9

$$\begin{array}{c} \textcircled{-2} + \textcircled{-3} = -5 \\ \text{getal} \quad \text{getal} \\ \nearrow \\ \text{tel op} \end{array}$$

10

$$\begin{array}{l} -3 + -5 = -8 \\ -9 + -2 = -11 \\ -17 + -4 = -21 \\ -100 + -25 = -125 \\ -75 + -25 = -100 \\ -12 + -12 = -24 \end{array}$$

5 ▶

11

$$\begin{array}{c} \textcircled{+2} + \textcircled{+3} = +5 \\ \text{getal} \quad \text{getal} \\ \nearrow \\ \text{tel op} \end{array}$$

12

$$\begin{array}{l} +1 + +1 = +2 \\ -5 + -1 = -6 \\ +21 + +3 = +24 \\ +7 + +7 = +14 \\ -3 + -4 = -7 \\ -2 + -12 = -14 \end{array}$$

13

$$\begin{array}{l} -21 + -5 = -26 \\ +21 + +5 = +26 \\ +15 + +4 = +19 \\ -100 + -63 = -163 \\ +21 + +24 = +45 \\ -5 + -124 = -129 \end{array}$$

6 ▶

14

Als je moet optellen wordt de opdracht "tel op" meestal weggelaten

$$\begin{array}{l} +2 + 5 = +7 \\ -2 - 5 = -7 \end{array}$$

De opdracht "tel op" is weggelaten

15

$-2 - 4 = -6$	$+5 + 14 = +19$
$-21 - 25 = -46$	$-5 - 14 = -19$
$+23 + 101 = +124$	$-100 - 75 = -175$
$-51 - 32 = -83$	$+100 + 75 = +175$
$+2 + 17 = +19$	$-21 - 82 = -103$
$-100 - 200 = -300$	$-100 - 1 = -101$

7 ▶

16

$$\cancel{-71} + 324 + \cancel{71} = +324$$

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17

$$\begin{aligned} -4 + 7 + 12 + 4 &= +19 \\ -73 - 75 + 73 - 5 &= -80 \\ -12 + 15 - 15 - 5 &= -17 \\ +4 + 31 - 105 + 105 &= +35 \\ +21 + 9 - 21 - 9 &= 0 \\ +28 - 31 - 28 &= -31 \end{aligned}$$

8 ▶

18

$$-3 + 7 =$$

Eerst het teken opschrijven.
Daarna het verschil tussen
7 en 3 opschrijven.

19

$-8 + 5 = -3$	$-18 + 24 = +6$
$+21 - 25 = -4$	$+10 - 10 = 0$
$-150 + 75 = -75$	$+10 - 11 = -1$
$-88 + 9 = -79$	$-9 + 12 = +3$
$+24 - 21 = +3$	$-25 + 24 = -1$
$-30 + 50 = +20$	$+20 - 21 = -1$

20

$-15 - 6 = -21$	$+18 - 7 = +11$
$-15 + 6 = -9$	$-7 + 18 = +11$
$+15 - 6 = +9$	$-20 - 30 = -50$
$+15 + 6 = +21$	$-20 + 30 = +10$
$-33 + 99 = +66$	$-7 + 7 = 0$
$-20 - 5 = -25$	$-14 - 100 = -114$

9 ▶

21

$$\begin{aligned} ---5 + -3 &= \\ -5 - 3 &= -8 \\ -3 --2 &= \\ -3 + 2 &= -1 \end{aligned}$$

min min is plus
niet niet is wel

22

$$\begin{aligned} --12 + 9 &= +12 + 9 = 21 \\ 5 --7 &= 5 + 7 = 12 \\ -8 --3 &= -8 + 3 = -5 \\ -12 \cancel{+} -4 &= -12 - 4 = -16 \\ -5 + \cancel{-} 3 &= -5 + 3 = -2 \\ \cancel{-} 3 \cancel{-} -3 &= 3 - 3 = 0 \end{aligned}$$

10 ▶

23

$$\begin{aligned} +3 \times +7 &= +21 \\ +3 \times -7 &= -21 \\ -3 \times +7 &= -21 \\ -3 \times -7 &= +21 \end{aligned}$$

Eerst het teken
opschrijven

24

$-3 \times -4 = +12$	$5 \times -10 = -50$
$+4 \times -8 = -32$	$-5 \times 6 = -30$
$5 \times -7 = -35$	$-20 \times -50 = +1000$
$-100 \times -8 = +800$	$-4 \times -80 = +320$
$-200 \times 7 = -1400$	$6 \times -30 = -180$
$-25 \times -4 = +100$	$4 \times -\frac{1}{2} = -\frac{4}{2} = -2$

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25

$$\begin{aligned} -3 \times -4 \times -5 &= -60 \\ +10 \times -4 \times +2 &= -80 \\ 10 \times -4 \times 2 &= -80 \\ -7 \times -8 \times 100 &= +5600 \\ -1 \times -2 \times -3 \times -4 &= +24 \\ -3 \times -\frac{1}{3} \times -5 &= -5 \end{aligned}$$

11 ►

Delen is vermenigvuldigen met het omgekeerde

26

$$\begin{aligned} -6 : -3 &= +2 \\ \frac{-6}{-3} &= +2 \end{aligned}$$

27

$-15 : +5 = -3$	$-1000 : 100 = -10$
$-200 : -10 = +20$	$-234 : -100 = +2,34$
$35 : -7 = -5$	$-81 : -9 = +9$
$-56 : -8 = +7$	$-25 : -1000 = +0,025$
$+36 : -6 = -6$	$+24 : -6 = -4$
$-27 : -3 = +9$	$-24 : 6 = -4$

Een breukstreep is een deelstreep!

28

$\frac{-2}{-5} = +\frac{2}{5}$	$\frac{-6}{-1} = +6$
$\frac{-12}{6} = -2$	$\frac{-8}{-4} = +2$
$\frac{-4}{-2} = +2$	$+\frac{3}{-9} = -\frac{1}{3}$
$\frac{4}{-8} = -\frac{1}{2}$	$-\frac{100}{25} = -4$
$\frac{-15}{-3} = +5$	$\frac{-14}{-21} = +\frac{2}{3}$
$\frac{-300}{-500} = +\frac{3}{5}$	$-\frac{20}{10} = -2$

29

$$\begin{aligned} -3 \times -6 : -2 &= +18 : -2 = -9 \\ -(3 \times 6 : 2) &= -(18 : 2) = -9 \\ -5 + 7 &= +2 \\ -3 \times (-10 - 2) &= -3 \times -12 = +36 \\ -\frac{-10}{-2} &= -5 \\ -(-5 - 21) &= -(-26) = +26 \end{aligned}$$

30

$$\begin{aligned} -(-10 \times -7 \times -3) &= -(-210) = 210 \\ -100 : (-5 \times -5) &= -100 : 25 = -4 \\ -100 \times (-24 + -5) &= -100 \times -29 = 2900 \\ \frac{50}{-2} &= -25 \\ -\frac{1}{2} \times -\frac{1}{7} &= +\frac{1}{14} = \frac{1}{14} \\ -100 - -300 &= -100 + 300 = 200 \end{aligned}$$

31

$$\begin{aligned} -\frac{-5}{-10} &= -\frac{5}{10} = -\frac{1}{2} \\ \frac{2}{3} : -1 &= -\frac{2}{3} \\ \frac{2}{3} : -5 &= -\frac{2}{3} \times \frac{1}{5} = -\frac{2}{15} \\ (-2 - 4) : 6 &= -6 : 6 = -\frac{6}{6} = -1 \\ -\frac{2}{3} \times -\frac{9}{5} &= \frac{2}{3} \times \frac{9}{5} = \frac{6}{5} = 1\frac{1}{5} \\ -3 \times -\frac{2}{3} &= 3 \times \frac{2}{3} = 2 \end{aligned}$$

32

$$\begin{aligned} 7 + (-8) + 3 + (-2) &= -1 + 3 - 2 \\ &= +2 - 2 = 0 \\ 7 - 8 + 3 - 2 &= -1 + 3 - 2 \\ &= +2 - 2 = 0 \\ -2 \times 3 \times -7 &= +42 \\ (-5 \times -7 \times 2) : 10 &= (+70) : 10 = 7 \\ -5 \times 0 \times 5 &= 0 \\ -5 : \frac{1}{3} &= -5 \times \frac{3}{1} = -15 \end{aligned}$$

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33

$$\begin{aligned} (-3)^2 &= (-3) \times (-3) = +9 = 9 \\ -3^2 &= -9 \\ 4-7 &= -3 \\ -4--7 &= +4+7 = +11 = 11 \\ (-5)^2 &= (-5) \times (-5) = +25 = 25 \\ 2--4 &= 2+4 = 6 \end{aligned}$$

34

$$\begin{aligned} \frac{-8}{-4} &= +2 = 2 \\ -\frac{-8}{-4} &= -(+2) = -2 \\ \frac{-4}{8} &= -\frac{4}{8} = -\frac{1}{2} \\ \frac{-5}{-15} &= +\frac{5}{15} = +\frac{1}{3} = \frac{1}{3} \\ \frac{2}{7} \times \frac{-21}{5} &= -\frac{2}{7} \times \frac{21}{5} = -\frac{6}{5} = -1\frac{1}{5} \\ \frac{2}{7} : -5 &= -\frac{2}{7} : 5 = -\frac{2}{7} \times \frac{1}{5} = -\frac{2}{35} \end{aligned}$$

35

$$\begin{aligned} -\frac{300}{7} \times -\frac{1}{200} &= +\frac{300}{7} \times \frac{1}{200} = \frac{3}{14} \\ \frac{2}{3} \times -\frac{2}{3} &= -\left(\frac{2}{3} \times \frac{2}{3}\right) = -\frac{4}{9} \\ \frac{2}{3} \times \frac{-2}{3} &= -\left(\frac{2}{3} \times \frac{2}{3}\right) = -\frac{4}{9} \\ \frac{-2}{5} \times \frac{-2}{5} &= +\left(\frac{2}{5} \times \frac{2}{5}\right) = \frac{4}{25} \\ \frac{-2}{-5} \times \frac{2}{-5} &= \left(\frac{2}{5} \times \frac{2}{5}\right) = \frac{4}{25} \\ \frac{-2}{-5} : \frac{2}{-5} &= -\left(\frac{2}{5} : \frac{2}{5}\right) = -1 \end{aligned}$$

36

$$\begin{aligned} (-2 \times -5)^2 &= (+10)^2 = 100 \\ (-2)^3 &= -2 \times -2 \times -2 = -(2 \times 2 \times 2) = -8 \\ \frac{5}{3} : 25 &= \frac{5}{3} \times \frac{1}{25} = \frac{1}{15} \\ \frac{-21}{7} &= -\frac{21}{7} = -3 \\ \frac{21}{-7} &= -\frac{21}{7} = -3 \end{aligned}$$

37

$$\begin{aligned} -11-5 &= -16 \\ -11--5 &= -11+5 = -6 \\ \frac{4}{21} : \frac{2}{-7} &= -\frac{4}{21} \times \frac{7}{2} = -\frac{4}{6} = -\frac{2}{3} \\ \frac{1}{14} : \frac{5}{-21} &= -\frac{1}{14} \times \frac{21}{5} = -\frac{3}{10} \\ -2-3-7 \times 2 &= -2-3-14 = -19 \end{aligned}$$

38

$$\begin{aligned} -\frac{3}{5} : -2\frac{1}{2} &= +\frac{3}{5} : \frac{5}{2} = \frac{3}{5} \times \frac{2}{5} = \frac{6}{25} \\ -1\frac{1}{2} : 1\frac{1}{3} &= -\frac{3}{2} : \frac{4}{3} = -\frac{3}{2} \times \frac{3}{4} = \\ &= -\frac{9}{8} = -1\frac{1}{8} \\ -51-204-7+204+51 &= -7 \\ -5-11-1 &= -17 \\ 5-7 &= -2 \end{aligned}$$

39

$$\begin{aligned} 1\frac{1}{2} : -3 &= -\frac{3}{2} : 3 = -\frac{3}{2} \times \frac{1}{3} = -\frac{1}{2} \\ -2\frac{1}{3} : \frac{-4}{7} &= +\frac{7}{3} : \frac{4}{7} = \frac{7}{3} \times \frac{7}{4} = \frac{49}{12} \\ &= 4\frac{1}{12} \\ 2 : -3 &= -2 : 3 = -\frac{2}{3} \\ -12 : -5 &= +12 : 5 = \frac{12}{5} = 2\frac{2}{5} \\ -5-(-2-3) &= -5-(-5) = -5+5 = 0 \end{aligned}$$

40

$$\begin{aligned} -3 : 0,6 &= -3 : \frac{6}{10} = -3 \times \frac{10}{6} = -5 \\ -\frac{1}{2} : -0,2 &= +\frac{1}{2} : \frac{2}{10} = \frac{1}{2} \times \frac{10}{2} = \frac{10}{4} \\ &= 2\frac{1}{2} \\ \frac{1}{2} : 5 &= \frac{1}{2} \times \frac{1}{5} = \frac{1}{10} \\ -2,7 : -1\frac{2}{7} &= +2\frac{7}{10} : 1\frac{2}{7} = \frac{27}{10} : \frac{9}{7} \\ &= \frac{27}{10} \times \frac{7}{9} = \frac{21}{10} = 2,1 \end{aligned}$$