

SEŠTEVANJE IN ODŠTEVANJE CELIH ŠTEVIL

ŠTEVILI IMATA ISTI PREDZNAK

sešteješ in daš vsoti predznak **+** (če sta obe pozitivni) ali **-** (če sta obe negativni)

PRIMERI:

$$+7 + 3 = +10$$

$$-7 - 3 = -10$$

n obeh primerih števili:
7 in 3 sešteješ

znamza5si



ŠTEVILI IMATA RAZLIČEN PREDZNAK

števili odšteješ in daš kakšni predznak **večjega** po absolutni vrednosti

PRIMERI:

$$+7 - 3 = +4$$

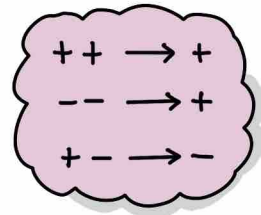
$$-7 + 3 = -4$$

7 je večje od 3

1. Izračunaj vrednosti izrazov.

$$a) -4 + (-16) = -4 - 16 = \underline{\underline{-20}}$$

$+- \rightarrow -$ isti predznak $\rightarrow$ sešteješ



$$b) -4 + (+16) = -4 + 16 = \underline{\underline{12}}$$

različni predznak $\rightarrow$ odšteješ
 $16 - 4 = 12$

$$c) 9 + (-12) = 9 - 12 = \underline{\underline{-3}}$$

različni predznak $\rightarrow$ odšteješ

rezultat je -, ker je 12 večje od 9 in ima 12 spredaj -

$$d) +13 + (-7) = 13 - 7 = \underline{\underline{6}}$$



$$e) -10 + (+9) = -10 + 9 = \underline{\underline{-1}}$$

različni predznak $\rightarrow$ odšteješ ($10 - 9 = 1$)

$$f) (+10) + (-25) = 10 - 25 = \underline{\underline{-15}}$$

25 je večje od 10

$$25 - 10 = 15$$

$$g) (-40) + (-20) = -40 - 20 = \underline{\underline{-60}}$$

isti predznak $\rightarrow$ sešteješ

$$40 + 20 = 60$$

$$h) -21 + 35 = \underline{\underline{14}}$$

rezultat je +, ker je 35 večje od 21

$$35 - 21 = 14$$

2. Izračunaj.

$$a) -16 - 14 = \underline{\underline{-30}}$$

ISTI PREDZNAK +
RAZLIČEN PREDZNAK -

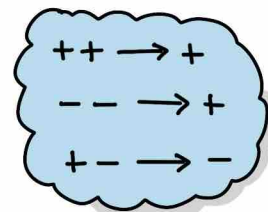
$$b) -78 + 59 = \underline{\underline{-19}}$$

$$78 - 59 = 19$$

rezultat je -, ker
je $78 > 59$ in ima 78 predznak -

$$c) (+82) + (-103) = 82 - 103 = \underline{\underline{-21}}$$

$+- \rightarrow -$ večji



$$d) (+160) + (-77) = 160 - 77 = \underline{\underline{83}}$$

$$e) (-67) + (+67) = -67 + 67 = \underline{\underline{0}}$$

znamza55i



$$f) (+238) + (-362) = 238 - 362 = \underline{\underline{-124}}$$

$$362 - 238 = 124$$

$$g) (-598) + (+634) = -598 + 634 = \underline{\underline{36}}$$

večji

predznaka + me
pišeš pri rezultatu

$$h) -945 - 785 = \underline{\underline{-1730}}$$

isti predznak $\rightarrow$ sešteješ

$$\begin{array}{r} 945 \\ + 785 \\ \hline 1730 \end{array}$$

$$i) 234 + 345 = \underline{\underline{579}}$$

$$\begin{array}{r} 234 \\ + 345 \\ \hline 579 \end{array}$$

3. Izračunaj.

a) $(-3841) + (-4732) = -3841 - 4732 = \underline{\underline{-8573}}$

$$\begin{array}{r} 3841 \\ + 4732 \\ \hline 8573 \end{array}$$

b) $162 + (-138) = 162 - 138 = \underline{\underline{24}}$

$$\begin{array}{r} 162 \\ - 138 \\ \hline 24 \end{array}$$

c) $46 + (-125) = 46 - 125 = \underline{\underline{-79}}$
 $+ - \rightarrow -$ $\swarrow$ *večji*

$$\begin{array}{r} 125 \\ - 46 \\ \hline 79 \end{array}$$

d) $-456 - 205 = \underline{\underline{-661}}$

$$\begin{array}{r} 456 \\ + 205 \\ \hline 661 \end{array}$$

e) $30 - 44 = \underline{\underline{-14}}$

$44 - 30 = 14$

$$\begin{array}{r} 163 \\ + 132 \\ \hline 295 \end{array}$$

znamza5si


f) $163 - (-132) = 163 + 132 = \underline{\underline{295}}$
 $- - \rightarrow +$

$$\begin{array}{r} 732 \\ + 17 \\ \hline 749 \end{array}$$

g) $-17 + (-732) = -17 - 732 = \underline{\underline{-749}}$
 $+ - \rightarrow -$

$$\begin{array}{r} 120 \\ - 57 \\ \hline 63 \end{array}$$

h) $-57 - (-120) = -57 + 120 = \underline{\underline{63}}$

$$\begin{array}{r} 235 \\ + 456 \\ \hline 691 \end{array}$$

i) $-235 - 456 = \underline{\underline{-691}}$

isti predznak $\rightarrow$ sešteješ

4. Izračunaj.

$$a) -678 - (-102) = -678 + 102 = \underline{\underline{-576}}$$

$-- \rightarrow +$

$$\begin{array}{r} 678 \\ -102 \\ \hline 576 \end{array}$$

$$b) -16 - (-749) = -16 + 749 = \underline{\underline{733}}$$

večji, zato je
rezultat pozitiven

$$\begin{array}{r} 749 \\ -16 \\ \hline 733 \end{array}$$

$$\begin{array}{r} 328 \\ -182 \\ \hline 146 \end{array}$$

$$c) -328 - (-182) = -328 + 182 = \underline{\underline{-146}}$$

$$d) 678 - (-111) = 678 + 111 = \underline{\underline{789}}$$

$$\begin{array}{r} 1022 \\ + 2315 \\ \hline 3337 \end{array}$$

$$e) -1022 - (+2315) = -1022 - 2315 = \underline{\underline{-3337}}$$

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5. Seštej.

$$a) 38 + 27 + (-32) = \underline{38 + 27} - 32 = 65 - 32 = \underline{\underline{33}}$$

$$b) -7 + (-4) + 63 = -7 - 4 + 63 = -11 + 63 = \underline{\underline{52}}$$

$$c) -13 + (-16) + (-18) = -13 - 16 - 18 = -29 - 18 = \underline{\underline{-47}}$$

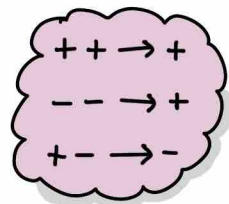
$$d) -27 + (-35) + (-60) = -27 - 35 - 60 = -62 - 60 = \underline{\underline{-122}}$$

6. Izračunaj vrednosti izrazov.

a) $130 + (-88) + (-90) + 250 =$

$= 130 - 88 - 90 + 250 =$

zdržiš negativne in pozitivne člene



$= 130 + 250 - 88 - 90 = 130 + 250 - (88 + 90) =$

od vsote pozitivnih členov odšteješ
vsoto negativnih členov

$= 380 - 178 = \underline{\underline{202}}$

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b) $380 + (-900) + 140 + (-30) = \underline{380} - \underline{900} + \underline{140} - \underline{30} =$

$= 380 + 140 - (900 + 30) = 520 - 930 = \underline{\underline{-410}}$

različen predznak → odšteješ
rezultat je -, ker je 930 večje od 520

c) $-318 + (-136) + (+767) + 102 = \underline{-318} - \underline{136} + \underline{767} + \underline{102} =$

$= 767 + 102 - (318 + 136) = 869 - 454 = \underline{\underline{415}}$

d) $103 + (-931) + (-803) + 743 = \underline{103} - \underline{931} - \underline{803} + \underline{743} =$

$= 103 + 743 - (931 + 803) = 846 - 1734 = \underline{\underline{-888}}$

e) $\underline{-320} + \underline{230} - \underline{600} + \underline{200} = 230 + 200 - (320 + 600) =$

$= 430 - 920 = \underline{\underline{-490}}$

7. Zapiši brez oklepajev in izračunaj.

$$a) (+4) - (+3) - (+2) - (-8) + (-4) = \underline{4} - \underline{3} - \underline{2} + \underline{8} - \underline{4} =$$

$$= 4 + 8 - (3 + 2 + 4) = 12 - 9 = \underline{\underline{3}}$$

$$b) -(+6) + (-4) - (-7) - (+2) - (-3) =$$

$$= \underline{-6} - \underline{4} + \underline{7} - \underline{2} + \underline{3} =$$

$$= 7 + 3 - (6 + 4 + 2) = 10 - 12 = \underline{\underline{-2}}$$

od vsote pozitivnih
odšteješ vsoto
negativnih
členov

$$c) (+13) - (+16) - (-13) + (-18) - (-7) =$$

$$= \underline{13} - \underline{16} + \underline{13} - \underline{18} + \underline{7} = 13 + 13 + 7 - (16 + 18) = 33 - 34 = \underline{\underline{-1}}$$

$$d) +(-3) + (-9) - (+7) - (+8) - (-3) = \underline{-3} - \underline{9} - \underline{7} - \underline{8} + \underline{3} =$$

$$= 3 - (3 + 9 + 7 + 8) = 3 - 27 = \underline{\underline{-24}}$$

$$e) (-22) - (-40) + (-88) + (+43) + (-89) =$$

$$= \underline{-22} + \underline{40} - \underline{88} + \underline{43} - \underline{89} = 40 + 43 - (22 + 88 + 89) =$$

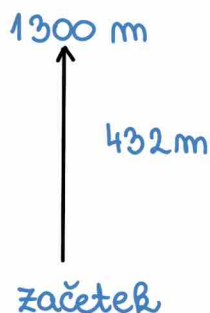
$$= 83 - 199 = \underline{\underline{-116}}$$

$$f) (-32) - (-37) + (-42) - (-43) + 6 = \underline{-32} + \underline{37} - \underline{42} + \underline{43} + \underline{6} =$$

$$= 37 + 43 + 6 - (32 + 42) = 86 - 74 = \underline{\underline{12}}$$

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8. Izletniki so odšli na 1300 m visok vrh. Pri tem so premagali 432 m višine. Na kateri nadmorski višini so začeli pot?



$$1300\text{ m} - 432\text{ m} = \underline{\underline{868\text{ m}}}$$

Pot so začeli na 868 m nadmorske višine.



9. Izračunaj.

$$\begin{aligned} \text{a) } & \underline{-5} + \underline{3} - \underline{9} + \underline{2} - \underline{4} - \underline{8} + \underline{5} + \underline{13} = 3 + 2 + 5 + 13 - (5 + 9 + 4 + 8) = \\ & = 23 - 26 = \underline{\underline{-3}} \end{aligned}$$

$$\begin{aligned} \text{b) } & \underline{15} - \underline{18} - \underline{17} - \underline{8} + \underline{23} - \underline{26} - \underline{18} = 15 + 23 - (18 + 17 + 8 + 26 + 18) = \\ & = 38 - 87 = \underline{\underline{-49}} \end{aligned}$$

$$\begin{aligned} \text{c) } & \underline{-5} + \underline{13} - \underline{12} + \underline{22} - \underline{6} - \underline{8} + \underline{4} - \underline{1} = 13 + 22 + 4 - (5 + 12 + 6 + 8 + 1) = \\ & = 39 - 32 = \underline{\underline{7}} \end{aligned}$$

$$\begin{aligned} \text{d) } & \underline{-82} + \underline{36} - \underline{52} - \underline{69} - \underline{78} + \underline{114} = 36 + 114 - (82 + 52 + 69 + 78) = \\ & = 150 - 281 = \underline{\underline{-131}} \end{aligned}$$

10. Izračunaj.

$$\begin{aligned} \text{a) } -906 - 603 + 711 + 186 &= 711 + 186 - (906 + 603) = \\ &= 897 - 1509 = \underline{\underline{-612}} \end{aligned}$$



$$\begin{aligned} \text{b) } 283 + (-605) + (-322) + 453 &= 283 - 605 - 322 + 453 = \\ &= 283 + 453 - (605 + 322) = 736 - 927 = \underline{\underline{-191}} \end{aligned}$$

$$\begin{aligned} \text{c) } -(+9620) - (-1860) + 10300 &= -9620 + 1860 + 10300 = \\ &= 10300 + 1860 - 9620 = 12160 - 9620 = \underline{\underline{2540}} \end{aligned}$$

11. Odprihri oklepaje in izračunaj.

$$\text{a) } 13 - (5 - 14) + 12 =$$

$\rightarrow 5 - 14 = -9$

$$= 13 - (-9) + 12 = 13 + 9 + 12 = \underline{\underline{34}}$$

oklepaj ima
prednost

$$\begin{aligned} \text{b) } -(4 + 11) - (\underline{\underline{-32}} + \underline{\underline{8}} - 16) &= -15 - (-24 - 16) = -15 - (-40) = \\ &= -15 + 40 = \underline{\underline{25}} \end{aligned}$$

$$\begin{aligned} \text{c) } (25 - 30) - (32 - 43) + (18 - 29) - (20 - 64) &= \\ &= -5 - (-11) + (-11) - (-44) = -5 + \cancel{11} - \cancel{11} + 44 = \underline{\underline{39}} \end{aligned}$$

$\rightarrow +11 - 11 = 0$

12. Izračunaj.

$$a) -82 + (83 - 110) - (223 + 142 - 83) = -82 + (-27) - (365 - 83) =$$

$$= -82 - 27 - 282 = \underline{\underline{-391}}$$

isti predznaki $\rightarrow$ sešteješ



$$b) -(-328 + 142) - (627 - 140 + 853) + 735 =$$

$$= -(-186) - (487 + 853) + 735 = 186 - 1340 + 735 =$$

$$= 186 + 735 - 1340 = 921 - 1340 = \underline{\underline{-419}}$$

$$c) -6 - (9 - (-10 - 13)) = -6 - (9 - (-23)) = -6 - (9 + 23) =$$

najprej rešiš
notranji oklepaj

$$= -6 - 32 = \underline{\underline{-38}}$$

$$d) ((-15) - (+20)) - ((+14) + (-25)) = (-15 - 20) - (14 - 25) =$$

$$= -35 - (-11) = -35 + 11 = \underline{\underline{-24}}$$

$$e) 17 - (9 + (17 - (10 - 14)) + 6) = 17 - (9 + (17 - (-4)) + 6) =$$

$$= 17 - (9 + (17 + 4) + 6) = 17 - (9 + 21 + 6) = 17 - 36 = \underline{\underline{-19}}$$

13. Izračunaj.

$$a) (-23+8) - (27 - (11 - ((16-18) + 15))) =$$

$$= -15 - (27 - (11 - (-2 + 15))) = -15 - (27 - (11 - 13)) =$$

$$= -15 - (27 - (-2)) = -15 - (27 + 2) = -15 - 29 = \underline{\underline{-44}}$$

$$b) 36 - (-71 + (-93 - 51)) = 36 - (-71 + (-144)) =$$

$$= 36 - (-71 - 144) = 36 - (-215) = 36 + 215 = \underline{\underline{251}}$$

$$c) (-123 - 456) + (-78) - (901 - 23) =$$

$$= (-579 - 78) - 878 = -657 - 878 = \underline{\underline{-1535}}$$



$$d) 13 - (4 + (-10 - (-6 + 2) + 8) - (-1 + (9 - 12) + 5)) =$$

$$= 13 - (4 + (-10 - (-4) + 8) - (-1 + (-3) + 5)) =$$

$$= 13 - (4 + (-10 + 4 + 8) - (-1 - 3 + 5)) = 13 - (4 + 2 - 1) = 13 - 5 = \underline{\underline{8}}$$

$$e) (40 - (22 - 66) - (39 - 25)) - ((91 - 76) - (45 - 100) + (-13 + 6)) =$$

$$= (40 - (-44) - 14) - (15 - (-55) + (-7)) =$$

$$= (40 + 44 - 14) - (15 + 55 - 7) = 70 - 63 = \underline{\underline{7}}$$