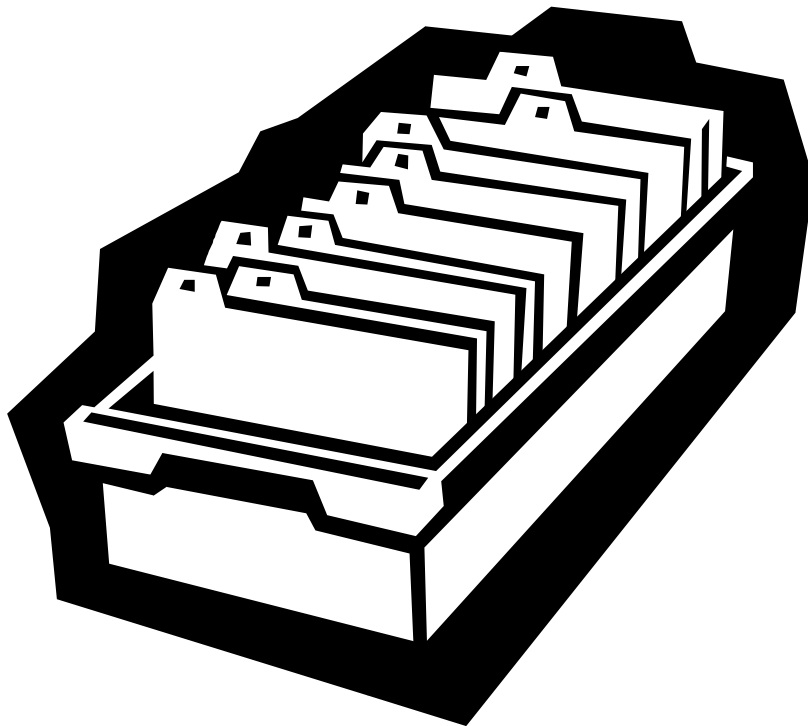


Lösungen zu den Karteikarten für Intensivierungsstunden in Jahrgangsstufe 5



Gruppe C
(Addition/Subtraktion ganzer Zahlen)

– Angaben ohne Gewähr –

Gruppe C	Thema: <i>Ganze Zahlen Addition/Subtr</i>	Schwierigkeit: <i>weiß</i>
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- C 01**
- a) $-27 - 35 = -(27 + 35) = \underline{\underline{-62}}$
 - b) $19 - 38 = -(38 - 19) = \underline{\underline{-19}}$
 - c) $-51 + 22 = -(51 - 22) = \underline{\underline{-29}}$
 - d) $44 - 72 = -(72 - 44) = \underline{\underline{-28}}$
 - e) $-59 + 86 = +(86 - 59) = \underline{\underline{27}}$

Gruppe C	Thema: <i>Ganze Zahlen Addition/Subtr</i>	Schwierigkeit: <i>weiß</i>
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- C 02**
- a) $-39 - 15 = -(39 + 15) = \underline{\underline{-54}}$
 - b) $52 - 35 = \underline{\underline{17}}$
 - c) $-51 + 28 = -(51 - 28) = \underline{\underline{-23}}$
 - d) $29 - 62 = -(62 - 29) = \underline{\underline{-33}}$
 - e) $-57 + 79 = +(79 - 57) = \underline{\underline{22}}$

- C 03** a) $67 - 95 = - (95 - 67) = \underline{\underline{-28}}$
b) $15 - 28 = - (28 - 15) = \underline{\underline{-13}}$
c) $-58 + 98 = + (98 - 58) = \underline{\underline{40}}$
d) $56 - 22 = \underline{\underline{34}}$
e) $-89 + 86 = - (89 - 86) = \underline{\underline{-3}}$

- C 04** a) $65 - 96 = - (96 - 65) = \underline{\underline{-31}}$
b) $23 - 56 = - (56 - 23) = \underline{\underline{-33}}$
c) $-58 + 72 = + (72 - 58) = \underline{\underline{14}}$
d) $51 - 35 = \underline{\underline{16}}$
e) $-99 + 96 = - (99 - 96) = \underline{\underline{-3}}$

- C 01** a) $(-27) + (-35) = -27 - 35 = -(27 + 35) = \underline{\underline{-62}}$
b) $19 - (-38) = 19 + 38 = \underline{\underline{57}}$
c) $(-51) - (-20) = -51 + 20 = -(51 - 20) = \underline{\underline{-31}}$
d) $(+44) + (-72) = 44 - 72 = -(72 - 44) = \underline{\underline{-28}}$
e) $(-59) - (+86) = -59 - 86 = -(59 + 86) = \underline{\underline{-145}}$

- C 02** a) $(-57) + (-15) = -57 - 15 = -(57 + 15) = \underline{\underline{-72}}$
b) $11 - (-39) = 11 + 39 = \underline{\underline{50}}$
c) $(-55) - (-10) = -55 + 10 = -(55 - 10) = \underline{\underline{-45}}$
d) $(+54) + (-52) = 54 - 52 = \underline{\underline{2}}$
e) $(-69) - (+36) = -69 - 36 = -(69 + 36) = \underline{\underline{-105}}$

Gruppe C	Thema: <i>Ganze Zahlen Addition/Subtr</i>	Schwierigkeit: <i>gelb</i>
-----------------	--	-----------------------------------

- C 03**
- a) $(-87) + (-19) = -87 - 19 = -(87 + 19) = \underline{\underline{-106}}$
- b) $39 - (-12) = 39 + 12 = \underline{\underline{51}}$
- c) $(-65) - (-36) = -65 + 36 = -(65 - 36) = \underline{\underline{-29}}$
- d) $(+51) + (-69) = 51 - 69 = -(69 - 51) = \underline{\underline{-18}}$
- e) $(-49) - (+38) = -49 - 38 = -(49 + 38) = \underline{\underline{-87}}$

Gruppe C	Thema: <i>Ganze Zahlen Addition/Subtr</i>	Schwierigkeit: <i>gelb</i>
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- C 04**
- a) $(-17) + (-29) = -17 - 29 = -(17 + 29) = \underline{\underline{-46}}$
- b) $59 - (-36) = 59 + 36 = \underline{\underline{95}}$
- c) $(-12) - (-39) = -12 + 39 = -(39 - 12) = \underline{\underline{-27}}$
- d) $(+71) + (-59) = 71 - 59 = \underline{\underline{12}}$
- e) $(-69) - (+53) = -69 - 53 = -(69 + 53) = \underline{\underline{-122}}$

Gruppe C	Thema: Ganze Zahlen Addition/Subtr	Schwierigkeit: grün
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Hinweis: Löse die Klammern auf und ordne dann nach Plusgliedern und Minusgliedern

C 01 a) $(-274) + (-235) - (-134) =$
 $= -274 - 235 + 134 =$
 $= 134 - (274 + 235) =$
 $= 134 - 509 =$
 $= -(509 - 134) = \underline{\underline{-375}}$

b) $519 - (+238) + (-14) - 169 =$
 $= 519 - 238 - 14 - 169 =$
 $= 519 - (238 + 14 + 169) =$
 $= 519 - 421 = \underline{\underline{98}}$

c) $(-531) - (-220) + (-569) - 156 =$
 $= -531 + 220 - 569 - 156 =$
 $= 220 - (531 + 569 + 156) =$
 $= 220 - 1256 =$
 $= -(1256 - 220) = \underline{\underline{-1036}}$

d) $(+444) + (-372) - (-123) =$
 $= 444 - 372 + 123 =$
 $= (444 + 123) - 372 =$
 $= 567 - 372 = \underline{\underline{195}}$

e) $(-594) - (+864) - (-123) =$
 $= -594 - 864 + 123 =$
 $= 123 - (594 + 864) =$
 $= 123 - 1458 =$
 $= -(1458 - 123) = \underline{\underline{-1335}}$

Gruppe C	Thema: Ganze Zahlen Addition/Subtr	Schwierigkeit: grün
-----------------	---	----------------------------

Hinweis: Löse die Klammern auf und ordne dann nach Plusgliedern und Minusgliedern

C 02 a) $(-274) + (-235) - (-565) =$
 $= -274 - 235 + 565 =$
 $= 565 - (274 + 235) =$
 $= 565 - 509 = \underline{\underline{56}}$

b) $895 - (+298) + (-123) - 198 =$
 $= 895 - 298 - 123 - 198 =$
 $= 895 - (298 + 123 + 198) =$
 $= 895 - 619 = \underline{\underline{276}}$

c) $(-254) - (+225) - (-589) - 856 =$
 $= -254 - 225 + 589 - 856 =$
 $= 589 - (254 + 225 + 856) =$
 $= 589 - 1335 =$
 $= -(1335 - 589) = \underline{\underline{-746}}$

d) $(+454) - (-672) + (-923) =$
 $= 454 + 672 - 923 =$
 $= (454 + 672) - 923 =$
 $= 1126 - 923 = \underline{\underline{203}}$

e) $(-254) - (+634) - (+184) =$
 $= -254 - 634 - 184 =$
 $= -(254 + 634 + 184) = \underline{\underline{-1072}}$

Hinweis: Löse die Klammern auf und ordne dann nach Plusgliedern und Minusgliedern

$$\begin{aligned}
 \text{C 03 a) } & (-174) + (-235) - (-194) = \\
 & = -174 - 235 + 194 = \\
 & = 194 - (174 + 235) = \\
 & = 194 - 409 = \\
 & = -(409 - 194) = \underline{\underline{-214}}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & 119 - (+225) + (-123) - 136 = \\
 & = 119 - 225 - 123 - 136 = \\
 & = 119 - (225 + 123 + 136) = \\
 & = 119 - 484 = \\
 & = -(484 - 119) = \underline{\underline{-365}}
 \end{aligned}$$

$$\begin{aligned}
 \text{c) } & (-581) - (-520) + (-456) - 196 = \\
 & = -581 + 520 - 456 - 196 = \\
 & = 520 - (581 + 456 + 196) = \\
 & = 520 - 1233 = \\
 & = -(1233 - 520) = \underline{\underline{-713}}
 \end{aligned}$$

$$\begin{aligned}
 \text{d) } & (+459) + (-572) - (-112) = \\
 & = 459 - 572 + 112 = \\
 & = (459 + 112) - 572 = \\
 & = 571 - 572 = \underline{\underline{-1}}
 \end{aligned}$$

$$\begin{aligned}
 \text{e) } & (-582) - (+669) - (+458) = \\
 & = -582 - 669 - 458 = \\
 & = -(582 + 669 + 458) = \underline{\underline{-1709}}
 \end{aligned}$$

Hinweis: Löse die Klammern auf und ordne dann nach Plusgliedern und Minusgliedern

$$\begin{aligned}
 \text{C 04 a) } & -264 + 211 - (-214) = \\
 & = -264 + 211 + 214 = \\
 & = (211 + 214) - 264 = \\
 & = 425 - 264 = \underline{\underline{161}}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & -519 - (+369) + (-184) - 299 = \\
 & = -519 - 369 - 184 - 299 = \\
 & = -(519 + 369 + 184 + 299) = \underline{\underline{-1371}}
 \end{aligned}$$

$$\begin{aligned}
 \text{c) } & (-481) - (-890) + (-499) - 169 = \\
 & = -481 + 890 - 499 - 169 = \\
 & = 890 - (481 + 499 + 169) = \\
 & = 890 - 1149 = \\
 & = -(1149 - 890) = \underline{\underline{-259}}
 \end{aligned}$$

$$\begin{aligned}
 \text{d) } & (+484) + (-372) - (-123) = \\
 & = 484 - 372 + 123 = \\
 & = (484 + 123) - 372 = \\
 & = 507 - 372 = \underline{\underline{135}}
 \end{aligned}$$

$$\begin{aligned}
 \text{e) } & (-566) - (+877) - (-777) = \\
 & = -566 - 877 + 777 = \\
 & = 777 - (566 + 877) = \\
 & = 777 - 1443 = \underline{\underline{-666}}
 \end{aligned}$$

Gruppe C	Thema: Ganze Zahlen Addition/Subtr	Schwierigkeit: blau
-----------------	---	----------------------------

C 01 a) $- [(-274) + (-235)] - \{-[-(-134) - 151]\} =$
 $= - [-274 - 235] - \{-[-134 - 151]\} =$
 $= - [-509] - \{-[-285]\} =$
 $= 509 - \{+285\} =$
 $= 509 - 285 = \underline{\underline{224}}$

b) $961 - (+238) + (-14) - 169 =$
 $= 961 - 238 - 14 - 169 =$
 $= 961 - (238 + 14 + 169) =$
 $= 961 - 421 = \underline{\underline{-540}}$

c) $-[-(-531) - (-220)] + [(-569) - 156] =$
 $= -[531 + 220] + [-569 - 156] =$
 $= -751 + [-725] =$
 $= -751 - 725 = \underline{\underline{-1476}}$

d) $(+494) - [(-392) - (-333)] - 898 =$
 $= 494 - [-392 + 333] - 898 =$
 $= 494 - [-59] - 898 =$
 $= 494 + 59 - 898 =$
 $= 553 - 898 = \underline{\underline{-345}}$

e) $123 - [(-594) - (+864) - (-123)] =$
 $= 123 - [-594 - 864 + 123] =$
 $= 123 - [123 - (594 + 864)] =$
 $= 123 - [123 - 1458] =$
 $= 123 - [-1335] =$
 $= 123 + 1335 = \underline{\underline{1458}}$

Gruppe C	Thema: Ganze Zahlen Addition/Subtr	Schwierigkeit: blau
-----------------	---	----------------------------

C 02 a) $235 - \{-[-(-964) + 951]\} =$
 $= 235 - \{-[-964 + 951]\} =$
 $= 235 - \{-[-13]\} =$
 $= 235 - 13 = \underline{\underline{222}}$

b) $- [(-274) + (-235)] + 961 - 369 =$
 $= - [-274 - 235] + 961 - 369 =$
 $= - (-509) + 961 - 369 =$
 $= +509 + 961 - 369 = \underline{\underline{1101}}$

c) $-[+(-561) + (-293)] + [(-969) - 136] =$
 $= -[-561 - 293] + [-969 - 136] =$
 $= -[-854] + [-1105] =$
 $= 854 - 1105 = \underline{\underline{-251}}$

d) $(-334) - [(-562) - (-396)] - 695 =$
 $= -334 - [-562 + 396] - 695 =$
 $= -334 - [-166] - 695 =$
 $= -334 + 166 - 695 =$
 $= 166 - (695 + 334) =$
 $= 166 - 1029 = \underline{\underline{-863}}$

e) $-685 - [(-456) - (+112) - (-336)] =$
 $= -685 - [-456 - 112 + 336] =$
 $= -685 - [336 - (456 + 112)] =$
 $= -685 - [336 - 568] =$
 $= -685 - [-232] =$
 $= -685 + 232 = \underline{\underline{-453}}$

Gruppe C	Thema: Ganze Zahlen Addition/Subtr	Schwierigkeit: blau
-----------------	---	----------------------------

C 03 a) $435 - \{-[-(-364) + 691]\} - 365 =$
 $= 435 - \{-[-364 + 691]\} - 365 =$
 $= 435 - \{-327\} - 365 =$
 $= 435 + 327 - 365 = \underline{397}$

b) $- [(-394) + (-595)] + 761 - 459 =$
 $= - [-394 - 595] + 761 - 459 =$
 $= - [-989] + 761 - 459 =$
 $= 989 + 761 - 459 = \underline{1291}$

c) $-[+(-121) + (-363)] - [(-869) - 636] =$
 $= -[-121 - 363] - [-869 - 636] =$
 $= -[-484] - [-1505] =$
 $= +484 + 1505 = \underline{1989}$

d) $(-264) - [(-669) - (+365)] - 715 =$
 $= -264 - [-669 - 365] - 715 =$
 $= -264 - [-1034] - 715 =$
 $= -264 + 1034 - 715 =$
 $= 1034 - (264 + 715) =$
 $= 1034 - 979 = \underline{55}$

e) $-389 - [(-325) + (+562) - (-536)] =$
 $= -389 - [+325 + 562 + 536] =$
 $= -389 - 1423 = \underline{-1812}$

Gruppe C	Thema: Ganze Zahlen Addition/Subtr	Schwierigkeit: blau
-----------------	---	----------------------------

C 04 a) $965 + \{-[-(-964) + 951]\} =$
 $= 965 + \{-[-964 + 951]\} =$
 $= 965 + \{-1915\} =$
 $= 965 - 1915 = \underline{-950}$

b) $- [(-134) + (-235)] + 931 - 388 =$
 $= - [-134 - 235] + 931 - 388 =$
 $= - [-369] + 931 - 388 =$
 $= 369 + 931 - 388 = \underline{912}$

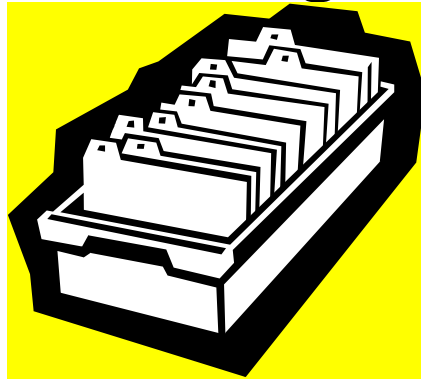
c) $-[+(-565) + (-274)] + [(-669) - 555] =$
 $= -[-565 - 274] + [-669 - 555] =$
 $= -[-839] + [-1224] =$
 $= 839 - 1224 = \underline{-385}$

d) $(-334) - [(-222) - (-333)] - 999 =$
 $= -334 - [-222 + 333] - 999 =$
 $= -334 - 111 - 999 =$
 $= -(334 + 111 + 999) = \underline{-1444}$

e) $-655 - [(-555) - (+444) - (-336)] =$
 $= -655 - [-555 - 444 + 336] =$
 $= -655 - [336 - (555 + 444)] =$
 $= -655 - [336 - 999] =$
 $= -655 - [-663] =$
 $= -655 + 663 = \underline{8}$

Karteikarten Intensivierungsstunden

Lösungen



Jahrgangsstufe:05

Gruppe: C

Thema: Addition/Subtraktion ganzer
Zahlen

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- ▶ Rechnen mit Klammern (Plus und Minus)
- ▶ Sortieren nach Plus- und Minusgliedern

B (positiv); **C** (auch negativ)
B; mit negativen Zahlen in **C**