

# Terme und Variablen – Lösungen

## Terme ohne Variable berechnen:

**1** a) (1) =  $9 \cdot 17 - 54$

(2) =  $153 - 54$

(3) =  $99$

b) =  $187 - 150 : 30 = 187 - 5 = 182$

c) =  $10 \cdot 6 - 70 : 7 - 3 \cdot 5 = 60 - 10 - 15 = 35$

d) =  $200 : 50 + 9 \cdot 52 = 4 + 468 = 472$

e) =  $8 : 2 + 20 - 9 \cdot 2 = 4 + 20 - 18 = 6$

**2** a) =  $(14 + 20) \cdot 6 - 40 : 8 + 29$

=  $34 \cdot 6 - 40 : 8 + 29 = 204 - 5 + 29 = 228$

b) =  $90 \cdot 7 - (120 - 25) \cdot 3 + 78$

=  $90 \cdot 7 - 95 \cdot 3 + 78 = 630 - 285 + 78 = 423$

c) =  $(200 - 20) : (30 - 10) = 180 : 20 = 9$

d) =  $(80 - 50) - (16 + 40) = 30 - 56 = -26$

**3** a) =  $(10 - 2,5) \cdot 4 = 7,5 \cdot 4 = 30$

b) =  $0,25 \cdot (30 - 15) = 0,25 \cdot 15 = 3,75$

## Terme mit Variablen ordnen:

①  $4b + 2a - 3c - 3a - 5b$

$2a - 3a + 4b - 5b - 3c$

④  $3c - 9b - 6a - 4b + 8c + 6b$

$-6a - 9b - 4b + 6b + 3c + 8c$

②  $5b + 8c + 4a - 6c - 7b - 3c$

$4a + 5b - 7b + 8c - 6c - 3c$

⑤  $7b + 6c - 5b + 2b - 9c - 2c + 1d$

$7b - 5b + 2b + 6c - 9c - 2c + 1d$

③  $5a + 5c + 4b - 8b - 4a - 1a - 7c$

$5a - 4a - 1a + 4b - 8b + 5c - 7c$

⑥  $7d - 2b - 8c - 3d - 4b - 6d + 5c$

$-2b - 4b - 8c + 5c + 7d - 3d - 6d$

## Terme mit Variablen zusammenfassen:

①  $4a - 5a - 2b + 3b - 4c + 7c$

$-1a + 1b + 3c$

②  $-2a + 6a - 3a + 5b - 7b - 2b + 4c + 1c$

$1a - 4b + 5c$

③  $8a - 10a + 5a - 6b - 3b - 5c + 2c$

$3a - 9b - 3c$

④  $7b - 4b - 4b + 3b - 9c - 2c + 6c - 1c$

$2b - 6c$

⑤  $5b - 8b + 2b + 7b - 4b + 2b - 5c - 3c$

$4b - 8c$

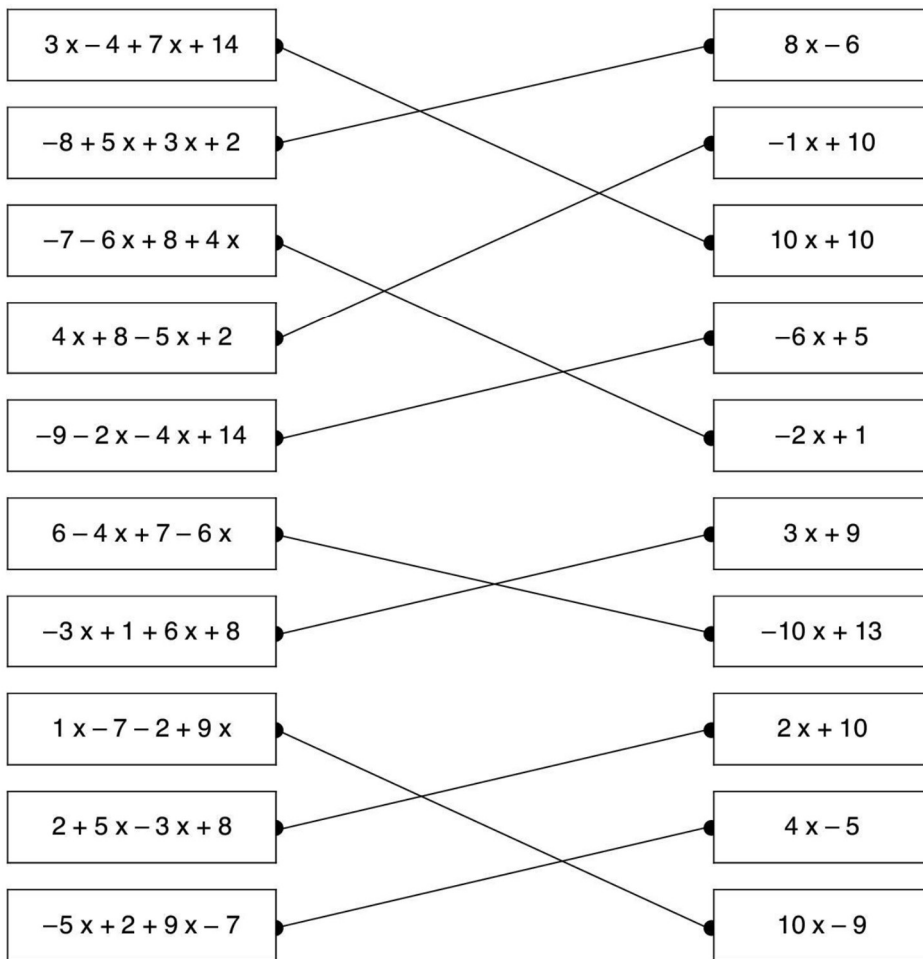
⑥  $3a - 6a + 4a - 8b - 5b + 6b - 9c + 2c + 7c$

$1a - 7b$

Lösungswort:

①	②	③	④	⑤	⑥
L	O	E	S	E	N

## Gleichwertige Terme verbinden:



## Terme mit Klammern:

