

# Terme berechnen

Berechne die fehlenden Zahlen.

①

$$\begin{array}{c} \boxed{17} \quad \boxed{5} \\ | \quad | \\ \ominus \\ | \\ \boxed{\phantom{00}} \quad \boxed{4} \\ | \quad | \\ \div \\ | \\ \boxed{\phantom{00}} \end{array}$$

②

$$\begin{array}{c} \boxed{6} \quad \boxed{8} \quad \boxed{12} \quad \boxed{8} \\ | \quad | \quad | \quad | \\ \cdot \quad \quad \quad \oplus \\ | \quad \quad \quad | \\ \boxed{\phantom{00}} \quad \quad \quad \boxed{\phantom{00}} \\ | \quad \quad \quad | \\ \ominus \\ | \\ \boxed{\phantom{00}} \end{array}$$

③

$$\begin{array}{c} \boxed{35} \quad \boxed{18} \quad \boxed{3} \quad \boxed{5} \\ | \quad | \quad | \quad | \\ \ominus \quad \quad \quad \cdot \\ | \quad \quad \quad | \\ \boxed{\phantom{00}} \quad \quad \quad \boxed{\phantom{00}} \\ | \quad \quad \quad | \\ \ominus \\ | \\ \boxed{\phantom{00}} \end{array}$$

④

$$\begin{array}{c} \boxed{4} \quad \boxed{11} \quad \boxed{46} \quad \boxed{22} \\ | \quad | \quad | \quad | \\ \cdot \quad \quad \quad \ominus \\ | \quad \quad \quad | \\ \boxed{\phantom{00}} \quad \quad \quad \boxed{\phantom{00}} \\ | \quad \quad \quad | \\ \ominus \\ | \\ \boxed{\phantom{00}} \quad \boxed{5} \\ | \quad | \\ \div \\ | \\ \boxed{\phantom{00}} \end{array}$$

⑤

$$\begin{array}{c} \boxed{7} \quad \boxed{4} \\ | \quad | \\ \cdot \\ | \\ \boxed{\phantom{00}} \quad \boxed{15} \quad \boxed{6} \quad \boxed{5} \\ | \quad | \quad | \quad | \\ \oplus \quad \quad \quad \cdot \\ | \quad \quad \quad | \\ \boxed{\phantom{00}} \quad \quad \quad \boxed{\phantom{00}} \\ | \quad \quad \quad | \\ \ominus \\ | \\ \boxed{\phantom{00}} \end{array}$$



# Fehlerhafte Gleichungen

Hier hat der Fehlerteufel zugeschlagen. Suche den Fehler und verbessere.

①  $16 + x = 51 \mid + 16$   
 $x = 67$

②  $2x - 10 = 50 \mid + 10$   
 $2x = 60 \mid \cdot 2$   
 $x = 120$

③  $2 + x + 21 = 34 + 3$   
 $23 + x = 31 \mid - 23$   
 $x = 8$

④  $18 - 5 + 3x + 3 = 28$   
 $10 + 3x = 28 \mid - 10$   
 $3x = 18 \mid : 3$   
 $x = 6$

⑤  $2x + 28 - 3 + 3x = 50$   
 $5x + 25 = 50 \mid + 25$   
 $5x = 75 \mid : 5$   
 $x = 15$

⑥  $x + 12,3 - 8,1 = 21$   
 $x + 20,4 = 21 \mid - 20,4$   
 $x = 0,6$



# Gleichungen lösen

Welche Zahl verbirgt sich hinter x?

①  $4x + 6 - 5 + 14 = 35$

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②  $1x + 9 - 6 + 6x + 6 - 1x = 33$

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③  $5 - 2x + 4x - 2 + 8 = 27$

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④  $12 - 8x + 24 + 13x - 16 = 65$

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⑤  $18 + 5x - 4x - 12 + 3x = 15 + 87 - 60$

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⑥  $12x - 3 = 11 \cdot 3$

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⑦  $26 - 4x + 6 \cdot 2 + 8x = 5 \cdot 2 \cdot 7$

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⑧  $15 : 3 + 6 + 14x - 9x = 6 \cdot 7 - 1$

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# Terme ordnen und zusammenfassen



Löse die Aufgaben.

①  $32a + 40b - 2 \cdot 14a + 3 \cdot 5b - 4 \cdot 12b =$

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②  $96b - 12b - 46a - 33b - 7a \cdot 4 + 4a =$

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③  $99c : 11 - 37a + 7 \cdot 9c + 46a - 2a + 6c - b =$

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④  $3 \cdot (x - 3y) + 4x + 7y =$

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⑤  $34y - (6 \cdot y \cdot 4) + (9x - x + 4) - y + 152 : 19 =$

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⑥  $(6y - 8x) + (14x + 3y) - 4x + 68 : 17 =$

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⑦  $18x + 15 \cdot (7 - x) + 12y + (8 + 3x) \cdot 2 =$

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⑧  $8 \cdot 4z - 102x : 17 + 4 \cdot 7 + 30x - 12z =$

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⑨  $(8 - 4 \cdot 12b) \cdot 2 + 18 + 48b + 13a - 12a =$

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⑩  $15 \cdot 2q - 4 \cdot 9p - 11o + (7 \cdot 6o - 1o) + 50p - 2 \cdot 5q + 10 =$

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⑪  $1,5 \cdot (8 - 6x) + 5 \cdot 6y + 4 \cdot 0,5x - 30y + 3x + 15 =$

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⑫  $(2,346 + 2,654) \cdot 16a + 8 : 0,5b - 20a \cdot 2 + 16b =$

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### Terme ordnen und zusammenfassen



Löse die Aufgaben.

①  $6a + 3b - a + 7b =$

$6a - a + 3b + 7b = 5a + 10b$

②  $20x + 15y - 12x - 8y + 2 =$

$20x - 12x + 15y - 8y + 2 = 8x + 7y + 2$

③  $17p - 12q + 15q - 12p =$

$17p - 12p - 12q + 15q = 5p + 3q$

④  $4x - 10y + 5z + 18y + 14x + 13y =$

$4x + 14x - 10y + 18y + 13y + 5z = 18x + 21y + 5z$

⑤  $9a - 10b + 25b - 4a + 7c =$

$9a - 4a - 10b + 25b + 7c = 5a + 15b + 7c$

⑥  $8m - 4n + 2o - 8m + 6n + 2o =$

$8m - 8m - 4n + 6n + 2o + 2o = 2n + 4o$

⑦  $4a - 3b + 6c + 8b + 7a =$

$4a + 7a - 3b + 8b + 6c = 11a + 5b + 6c$

⑧  $22d + 4e - 12d + 8f + 13e - 5f =$

$22d - 12d + 4e + 13e + 8f - 5f = 10d + 17e + 3f$

⑨  $26n + 14m - 19n + 13 - 6 - 4m =$

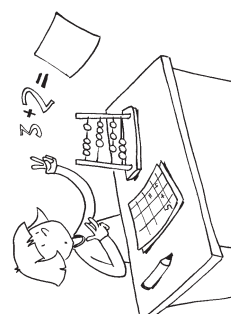
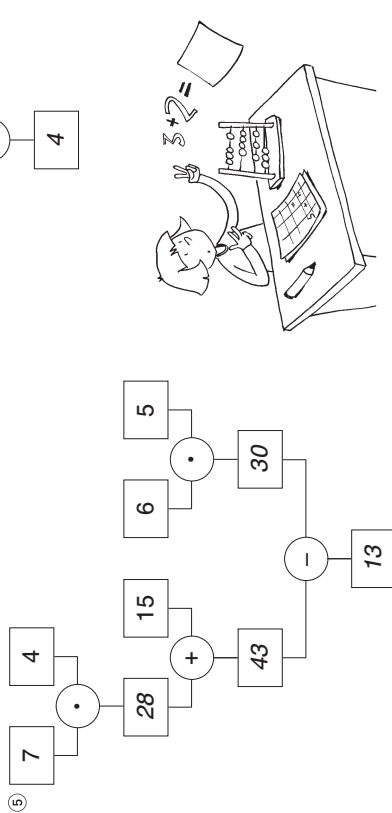
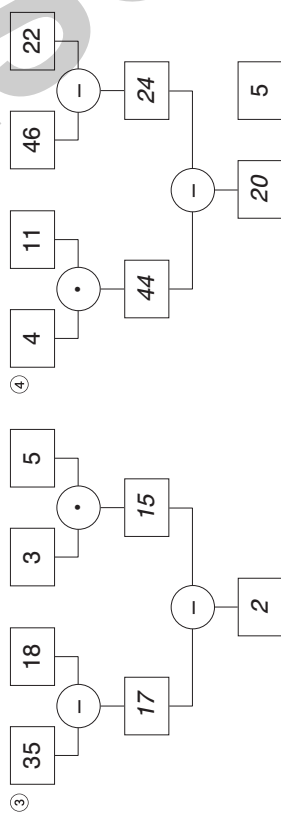
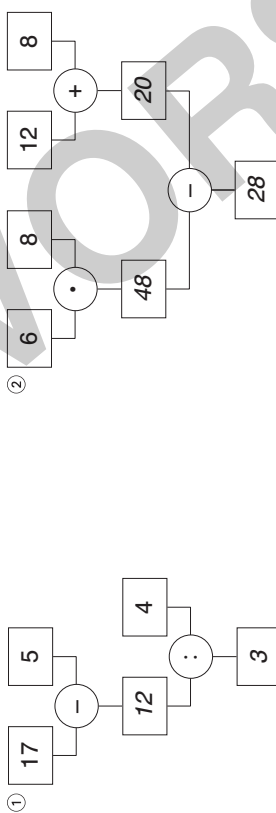
$26n - 19n + 14m - 4m + 13 - 6 = 7n + 10m + 7$

⑩  $15,5p - 12,5p - 3o + 4 + 6o =$

$15,5p - 12,5p - 3o + 6o + 4 = 3p + 3o + 4$

### Terme berechnen

Berechne die fehlenden Zahlen.



### Terme ordnen und zusammenfassen



Löse die Aufgaben.

- ①  $12a + 3b + 4a + 7b - 2b = 16a + 8b$
- ②  $16a - 4b + 6c - 10a - 4c + 8b = 16a - 10a + 8b - 4b + 6c - 4c = 6a + 4b + 2c$
- ③  $12b - 16a + 20a - 6b + 14a - 3b = 12b - 6b - 3b + 20a - 16a + 14a = 3b + 18a$
- ④  $9x + 14y + 33 - 11 - 3y + 2x = 9x + 2x + 14y - 3y + 33 - 11 = 11x + 11y + 22$
- ⑤  $48x + 57y - 19x + 3 \cdot 6 - 42y + 2 - 13x = 48x - 19x - 13x + 57y - 42y + 18 + 2 = 16x + 15y + 20$
- ⑥  $144a - 43a + 160 - 74b + 18a + 200b - 47 - 3b = 144a - 43a + 18a + 160 - 47 + 200b - 74b - 3b = 119a + 123b + 113$
- ⑦  $12a + 60c - 14b + 6a - 49c - 3a + 20b = 12a + 6a - 3a + 20b - 14b + 60c - 49c = 15a + 6b + 11c$
- ⑧  $162c - 16c + 62a - 14c + 71b - 19a - 37b - 18b - 100c = 162c - 16c - 14c - 100c + 62a - 19a + 71b - 37b - 18b = 32c + 43a + 16b$
- ⑨  $249a - 16c + 59b - 210a + 46c - 13b - 9c - 8a + 4b = 249a - 210a - 8a + 59b - 13b + 4b + 46c - 16c - 9c = 31a + 50b + 21c$
- ⑩  $99c - 41y - 53c + 16 + 72y + 23x - 4 - 31y = 99c - 53c + 72y - 31y - 41y + 16 - 4 + 23x = 46c + 12 + 23x$

### Gleichungen lösen

Welche Zahl verbirgt sich hinter x?

- ①  $4x + 6 - 5 + 14 = 35$   
 $4x + 15 = 35 \quad | -15$   
 $4x = 20 \quad | :4$   
 $x = 5$
- ②  $1x + 9 - 6 + 6x + 6 - 1x = 33$   
 $6x + 9 = 33 \quad | -9$   
 $6x = 24 \quad | :6$   
 $x = 4$
- ③  $5 - 2x + 4x - 2 + 8 = 27$   
 $2x + 11 = 27 \quad | -11$   
 $2x = 16 \quad | :2$   
 $x = 8$
- ④  $12 - 8x + 24 + 13x - 16 = 65$   
 $20 + 5x = 65 \quad | -20$   
 $5x = 45 \quad | :5$   
 $x = 9$
- ⑤  $18 + 5x - 4x - 12 + 3x = 15 + 87 - 60$   
 $6 + 4x = 42 \quad | -6$   
 $4x = 36 \quad | :4$   
 $x = 9$
- ⑥  $12x - 3 = 11 \cdot 3$   
 $12x - 3 = 33 \quad | +3$   
 $12x = 36 \quad | :12$   
 $x = 3$
- ⑦  $26 - 4x + 6 \cdot 2 + 8x = 5 \cdot 2 \cdot 7$   
 $38 + 4x = 70 \quad | -38$   
 $4x = 32 \quad | :4$   
 $x = 8$
- ⑧  $15 : 3 + 6 + 14x - 9x = 6 \cdot 7 - 1$   
 $11 + 5x = 41 \quad | -11$   
 $5x = 30 \quad | :5$   
 $x = 6$

