



Englische Übungen zu Gleichungen und Formeln

1. Solve the equations (determine the value of x).

- a. $x + 7 = 31$
- b. $12 + x = 26$
- c. $x : 3 = 5$
- d. $x \cdot 3 = 33$

2. Match the equations with the correct solutions.

1	$z : 15 = 2$	
2	$16 = 35 - z$	
3	$5 \cdot (z + 1) = 125$	
4	$17 = 4 + (z - 1)$	

A	$z = 19$
B	$z = 20$
C	$z = 24$
D	$z = 30$
E	$z = 14$
F	$z = 32$

3. Write down the equations and determine the value of the missing variable.

- a. The sum of y and 16 is equal to the product of 6 and 4.
- b. The difference between 39 and b is equal to the quotient of 48 and 12.

Vocabulary

Englisch	Deutsch
equation	Gleichung
solve	lösen (z.B. Gleichung)
determine the value of	den Wert von etwas bestimmen
variable	Variable
is equal to	ist gleich groß wie
the sum of	die Summe von
the product of	das Produkt von
the difference between	die Differenz zwischen
the quotient of	der Quotient von





Solution

1. Solve the equations (determine the value of x).

a. $x + 7 = 31$ **$x = 24$**

b. $12 + x = 26$ **$x = 14$**

c. $x : 3 = 5$ **$x = 15$**

d. $x \cdot 3 = 33$ **$x = 11$**

2. Match the equations with the correct solutions.

1	$z : 15 = 2$	D
2	$16 = 35 - z$	A
3	$5 \cdot (z + 1) = 125$	C
4	$17 = 4 + (z - 1)$	E

A	$z = 19$
B	$z = 20$
C	$z = 24$
D	$z = 30$
E	$z = 14$
F	$z = 32$

3. Write down the equations and determine the value of the missing variable.

a. The sum of y and 16 is equal to the product of 6 and 4.

$$y + 16 = 6 \cdot 4 \rightarrow y = 8$$

b. The difference between 39 and b is equal to the quotient of 48 and 12.

$$39 - b = 48 : 12 \rightarrow b = 35$$

