

AB: Teste dein Wissen

① Erkläre in eigenen Worten was „Variablen“ sind.

A diagram illustrating a simple addition problem. At the top, there is a yellow box containing the expression $20 + x$, followed by a red box containing an equals sign $=$, and then a green box containing the number 25. Below these, there are four empty boxes: a yellow one on the left, a white one in the middle, a red one on the right, and a green one on the far right. Arrows point from the yellow box to the $20 + x$ box, from the white box to the x box, from the red box to the $=$ box, and from the green box to the 25 box.

[illegible]

A large grid of 20 columns and 15 rows, intended for drawing a picture. The grid is composed of small squares, with a slightly larger square at the top left corner, likely for a title or drawing area.

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Mathematik Gleichungen M 7

- ⑤ Vereinfache den Term $4(x + 5)$ und erkläre, warum dieser nur mit Hilfe des Distributivgesetzes vereinfacht werden kann.

A full-page sheet of white graph paper with a light gray grid. The grid consists of small squares, approximately 1 cm by 1 cm each. There are 20 columns and 20 rows of squares, creating a total area of 400 small squares. The grid lines are thin and evenly spaced.

- ⑥ **Vereinfache die Terme.**

$$a) \quad 9(8 - 2) = \square$$
$$= \square$$

b) $3(x + 2) =$
 $=$

c) $(a + 4)5 =$
 $=$

d) $3 + (d + 2)2 =$

$=$

$=$

- ⑦ Vervollständige die Terme.

a) $3x + \boxed{} - x + 3 = 2x + 5$

b) $2 \cdot \boxed{} - 2a + 4 = 4a + 4$

c) $\boxed{} \cdot 3x - 12 = 3x^2 - 12$

d) · 5 + 3 = 10a + 3