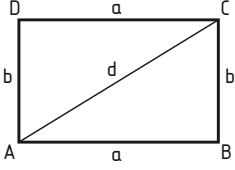
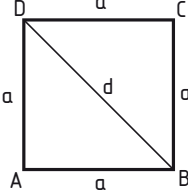
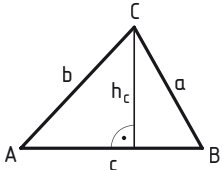
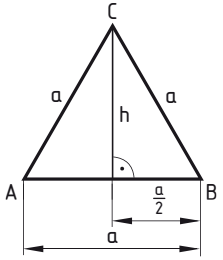
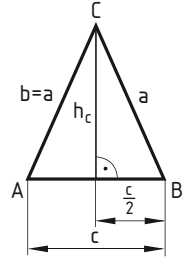
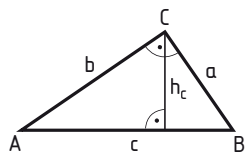
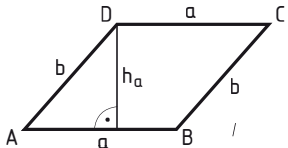
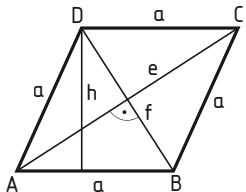
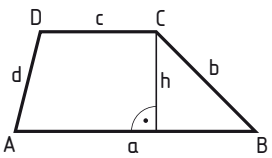
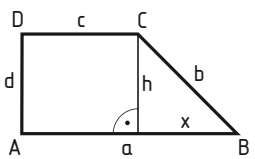
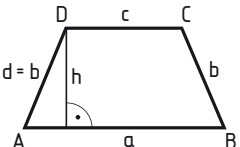
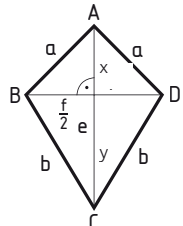
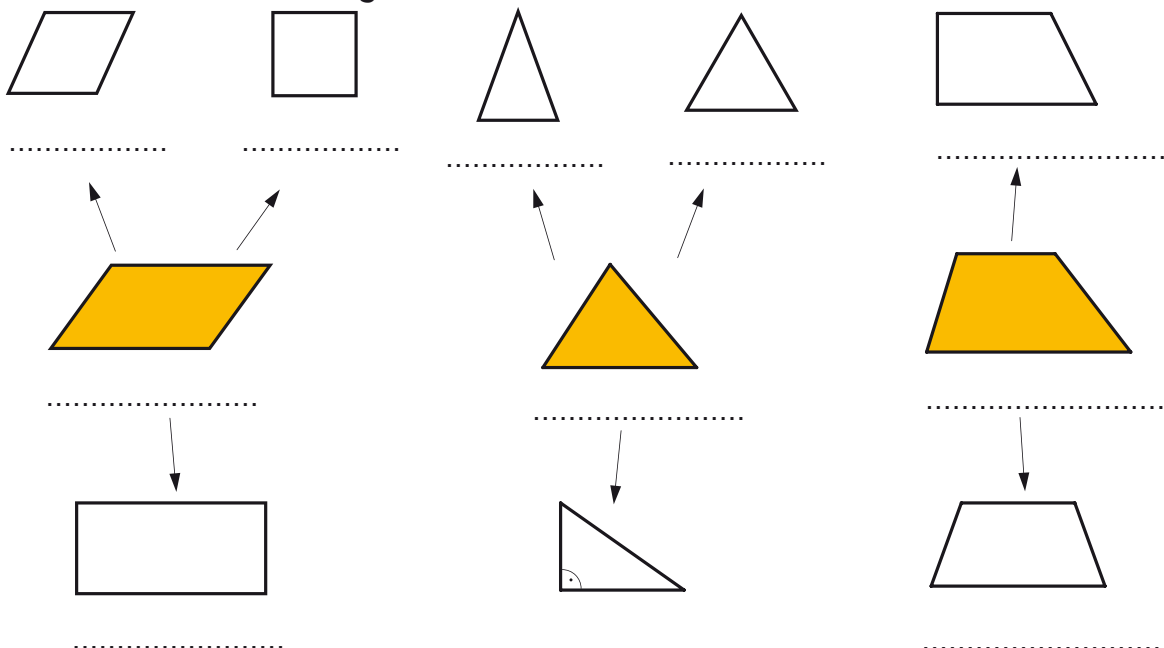


1 Wiederhole die bereits gelernten Formeln zur Berechnung ebener Figuren.

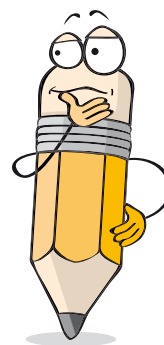
Rechteck $u = (a + b) \cdot 2$ $A = a \cdot b$ $d = \sqrt{a^2 + b^2}$ 	Quadrat $u = 4a$ $A = a^2$ $d = \sqrt{a^2 + a^2}$ $= a \cdot \sqrt{2}$ 	allgemeines Dreieck $u = a + b + c$ $A = \frac{c \cdot h_c}{2}$ $A = \frac{a \cdot h_a}{2}$ $A = \frac{b \cdot h_b}{2}$ 
gleichseitiges Dreieck $(a = b = c)$ $u = 3a$ $A = \frac{a \cdot h}{2}$ $h = \sqrt{a^2 - \left(\frac{a}{2}\right)^2}$ 	gleichschenkliges Dreieck $a = b$ $u = 2a + c$ $A = \frac{c \cdot h_c}{2}$ $h_c = \sqrt{a^2 - \left(\frac{c}{2}\right)^2}$ 	rechtwinkliges Dreieck $\gamma = 90^\circ$ $u = a + b + c$ $A = \frac{c \cdot h_c}{2}$ $A = \frac{a \cdot b}{2}$ Pythagoräischer Lehrsatz: $c = \sqrt{a^2 + b^2}$ 
allgemeines Parallelogramm $u = (a + b) \cdot 2$ $A = a \cdot h_a$ $A = b \cdot h_b$ 	Raute (Rhombus) $u = 4a$ $A = a \cdot h$ $A = \frac{e \cdot f}{2}$ $a = \sqrt{\left(\frac{e}{2}\right)^2 + \left(\frac{f}{2}\right)^2}$ 	
allgemeines Trapez $u = a + b + c + d$ $A = \frac{(a + c) \cdot h}{2}$ 	rechtwinkliges Trapez $u = a + b + c + d$ $A = \frac{(a + c) \cdot h}{2}$ $x = a - c$ $h = \sqrt{b^2 - x^2}$ $b = \sqrt{h^2 + x^2}$ 	
gleichschenkliges Trapez $u = a + 2b + c$ $A = \frac{(a + c) \cdot h}{2}$ $h = \sqrt{b^2 - \left(\frac{a - c}{2}\right)^2}$ 	Deltoid (Drachenviereck) $u = (a + b) \cdot 2$ $A = \frac{e \cdot f}{2}$ $x = \sqrt{e^2 - \left(\frac{f}{2}\right)^2}$ $y = \sqrt{b^2 - \left(\frac{f}{2}\right)^2}$ 	

2 Ordne die Namen richtig zu.

Lösungshilfe: Parallelogramm, rechtwinkliges Trapez, allgemeines Dreieck, Rechteck, Trapez, Raute, rechtwinkliges Dreieck, gleichseitiges Dreieck, gleichschenkliges Trapez, Quadrat, gleichschenkliges Dreieck

3 Finde das Lösungswort. Runde auf Einer.

- 1) Rechteck: $a = 17,5 \text{ cm}$, $b = 9,7 \text{ cm}$, $A = ?$
- 2) Rechteck: $a = 17,5 \text{ cm}$, $b = 9,7 \text{ cm}$, $d = ?$
- 3) Dreieck: $c = 6,7 \text{ cm}$, $h_c = 4,5 \text{ cm}$, $A = ?$
- 4) gleichseitiges Dreieck: $a = 12 \text{ cm}$, $h = ?$
- 5) Deltoid: $e = 8 \text{ cm}$, $f = 5 \text{ cm}$, $A = ?$
- 6) Parallelogramm: $a = 3,6 \text{ cm}$, $h_a = 5,2 \text{ cm}$, $A = ?$
- 7) Quadrat: $a = 1 \text{ cm}$, $u = ?$
- 8) Raute: $a = 7,2 \text{ cm}$, $u = ?$
- 9) rechtwinkliges Dreieck: $a = 9,4 \text{ cm}$, $b = 4 \text{ cm}$, $A = ?$
- 10) rechtwinkliges Dreieck: $a = 3 \text{ cm}$, $b = 4 \text{ cm}$, $c = ?$ (Hyp.)
- 11) Trapez: $a = 6 \text{ cm}$, $c = 5 \text{ cm}$, $h = 4 \text{ cm}$, $A = ?$
- 12) Quadrat: $A = 225 \text{ cm}^2$, $a = ?$
- 13) gleichschenkliges Trapez: $a = 3,2 \text{ cm}$, $b = 4,5 \text{ cm}$, $c = 9 \text{ cm}$, $u = ?$
- 14) Quadrat: $a = 9,5 \text{ cm}$, $A = ?$
- 15) Dreieck: $a = 7,8 \text{ cm}$, $h_a = 13,23 \text{ cm}$, $A = ?$
- 16) gleichschenkliges Dreieck: $c = 6,9 \text{ cm}$, $a = b = 5,3 \text{ cm}$, $u = ?$
- 17) rechtwinkliges Dreieck: $a = 12 \text{ cm}$, $b = 3 \text{ cm}$, $A = ?$
- 18) Quadrat: $a = 5 \text{ cm}$, $u = ?$
- 19) gleichseitiges Dreieck: $a = 5 \text{ cm}$, $h = ?$



A	29
B	170
C	15
D	5
E	20
H	21
I	52
K	10
M	18
N	19
R	4
S	22
W	90

Lösungswort:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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