


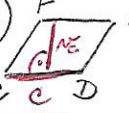
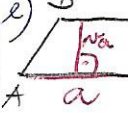


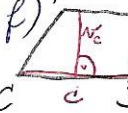
1) a)  $\sigma = 4 \cdot a$
 $\sigma = 4 \cdot 6$
 $\sigma = 24 \text{ cm}$
 $a = 6 \text{ cm}$
 $\sigma = ?$
 $S = ?$


b)  $\sigma = 2 \cdot k + 2 \cdot l$
 $\sigma = 2 \cdot 8,9 + 2 \cdot 14,5$
 $\sigma = 17,8 + 29$
 $\sigma = 46,8 \text{ cm}$
 $k = 8,9 \text{ cm}$
 $l = 14,5 \text{ cm}$
 $\sigma = ?$
 $S = ?$

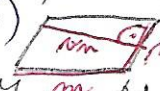
c)  $\sigma = 2 \cdot e + 2 \cdot f$
 $\sigma = 2 \cdot 16,5 + 2 \cdot 67$
 $\sigma = 33 + 134$
 $\sigma = 167 \text{ cm}$
 $e = 16,5 \text{ dm} = 165 \text{ cm}$
 $f = 67 \text{ cm}$
 $\sigma = ?$
 $S = ?$

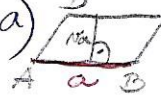
d)  $\sigma = 4 \cdot c$
 $\sigma = 4 \cdot 28$
 $\sigma = 112 \text{ cm}$
 $c = 28 \text{ cm}$
 $h_c = 0,8 \text{ dm} = 8 \text{ cm}$
 $\sigma = ?$
 $S = ?$


e)  $\sigma = 2 \cdot a + 2 \cdot b$
 $\sigma = 2 \cdot 4 + 2 \cdot 3$
 $\sigma = 8 + 6$
 $\sigma = 14 \text{ cm}$
 $a = 4 \text{ cm}$
 $b = 3 \text{ cm}$
 $h_a = 2 \text{ cm}$
 $\sigma = ?$
 $S = ?$

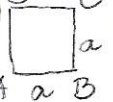
f)  $\sigma = 2 \cdot c + 2 \cdot d$
 $\sigma = 2 \cdot 5 + 2 \cdot 3,5$
 $\sigma = 10 + 7$
 $\sigma = 17 \text{ cm}$
 $c = 0,5 \text{ dm} = 5 \text{ cm}$
 $d = 3,5 \text{ mm} = 0,35 \text{ cm}$
 $h_c = 3 \text{ cm}$
 $\sigma = ?$
 $S = ?$


g)  $\sigma = 2 \cdot a + 2 \cdot b$
 $\sigma = 2 \cdot 67 + 2 \cdot 29$
 $\sigma = 134 + 58$
 $\sigma = 192 \text{ mm}$
 $a = 67 \text{ mm}$
 $b = 29 \text{ cm} = 290 \text{ mm}$
 $h_a = 21 \text{ cm} = 210 \text{ mm}$
 $\sigma = ?$
 $S = ?$


h)  $\sigma = 2 \cdot m + 2 \cdot n$
 $\sigma = 2 \cdot 42 + 2 \cdot 32$
 $\sigma = 84 + 64$
 $\sigma = 148 \text{ cm}$
 $m = 42 \text{ dm} = 420 \text{ cm}$
 $n = 32 \text{ cm}$
 $h_m = 0,2 \text{ dm} = 20 \text{ cm}$
 $\sigma = ?$
 $S = ?$


2) a)  $a = 46 \text{ cm}$
 $S = 1380 \text{ cm}^2$
 $h_a = ?$
 $S = a \cdot h_a$
 $1380 = 46 \cdot h_a$
 $h_a = 1380 : 46$
 $h_a = 30 \text{ cm}$

b)  $b = 78 \text{ dm}$
 $S = 0,273 \text{ m} = 273 \text{ dm}$
 $h_b = ?$
 $S = b \cdot h_b$
 $273 = 78 \cdot h_b$
 $h_b = 273 : 78$
 $h_b = 3,5 \text{ dm}$

3)  $\sigma = 1236 \text{ cm}$
 $S = ?$
 $\sigma = 4 \cdot a$
 $1236 = 4 \cdot a$
 $a = 1236 : 4$
 $a = 309 \text{ cm}$
 $S = a \cdot a$
 $S = 309 \cdot 309$
 $S = 95481 \text{ cm}^2$


6)  $a = 4 \text{ cm}$
 $b = 9 \text{ cm}$
 $\sigma_{\square} = ?$
 $S_{\square} = a \cdot b$
 $S_{\square} = 4 \cdot 9$
 $S_{\square} = 36 \text{ cm}^2 = S_{\square} \Rightarrow c = 6 \text{ cm}$
 $\sigma_{\square} = 4 \cdot c$
 $\sigma_{\square} = 4 \cdot 6 = 24 \text{ cm}$

4)  $\sigma = 4 \cdot a$
 $254,4 = 4 \cdot a$
 $a = 254,4 : 4$
 $a = 63,6 \text{ cm}$
 $h_a = 4,8 \text{ dm} = 48 \text{ cm}$
 $\sigma = ?$
 $S = a \cdot h_a$
 $S = 63,6 \cdot 48$
 $S = 3052,8 \text{ cm}^2$

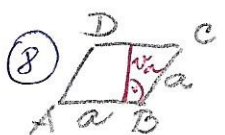
7)  $a = 56 \text{ cm}$
 $b = 70 \text{ cm}$
 $\sigma_{\square} = \sigma_{\square}$
 $c = ?$
 $S_{\square} \cdot S_{\square} = ?$

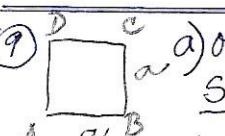
a) $\sigma_{\square} = 4 \cdot a$
 $\sigma_{\square} = 4 \cdot 56$
 $\sigma_{\square} = 224 \text{ cm} = \sigma_{\square}$
 $\sigma_{\square} = 2 \cdot b + 2 \cdot c$
 $224 = 2 \cdot 70 + 2 \cdot c$
 $224 = 140 + 2 \cdot c$
 $2 \cdot c = 224 - 140 = 84$
 $c = 84 : 2 = 42 \text{ cm}$

b) $\sigma = 212 \text{ mm} = 212 \text{ cm}$
 $h_a = 30 \text{ cm}$
 $\sigma = ?$
 $\sigma = 4 \cdot a$
 $212 = 4 \cdot a$
 $a = 212 : 4$
 $a = 53 \text{ cm}$
 $S = a \cdot h_a$
 $S = 53 \cdot 30$
 $S = 1590 \text{ cm}^2$


5)  $S = a_1 \cdot b_1$
 $1200 = 40 \cdot b_1$
 $b_1 = 1200 : 40$
 $b_1 = 30 \text{ dm}$
 $a_1 = 40 \text{ dm}$
 $a_2 = 12 \text{ dm}$
 $S = 1200 \text{ dm}^2$
 $\sigma_1, \sigma_2 = ?$
 $\sigma_1 = 2 \cdot a_1 + 2 \cdot b_1$
 $\sigma_1 = 2 \cdot 40 + 2 \cdot 30$
 $\sigma_1 = 80 + 60$
 $\sigma_1 = 140 \text{ dm}$
 $S = a_2 \cdot b_2$
 $1200 = 12 \cdot b_2$
 $b_2 = 1200 : 12$
 $b_2 = 100 \text{ dm}$
 $\sigma_2 = 2 \cdot a_2 + 2 \cdot b_2$
 $\sigma_2 = 2 \cdot 12 + 2 \cdot 100$
 $\sigma_2 = 24 + 200$
 $\sigma_2 = 224 \text{ dm}$


b) $S_{\square} = a \cdot a$
 $S_{\square} = 56 \cdot 56$
 $S_{\square} = 3136 \text{ cm}^2$
 $3136 - 2940 = 196 \text{ cm}^2$
 $196 = b \cdot c$
 $S_{\square} = b \cdot c$
 $S_{\square} = 70 \cdot 42$
 $S_{\square} = 2940 \text{ cm}^2$

8)  $S = a \cdot n \cdot a$ $o = 4 \cdot a$
 $405 = a \cdot 9$ $o = 4 \cdot 45$
 $a = 405 : 9$ $o = 180 \text{ mm}$
 $S = 405 \text{ mm}^2$ $a = 45 \text{ mm}$
 $n_a = 9 \text{ mm}$
 $o = ?$

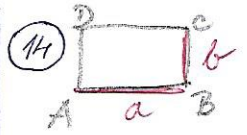
9)  a) $o = 32,8 \text{ m}$
 $S = ?$
 $o = 4 \cdot a$ $S = a \cdot a$
 $32,8 = 4 \cdot a$ $S = 8,2 \cdot 8,2$
 $a = 32,8 : 4$ $S = 67,24 \text{ m}^2$
 $a = 8,2 \text{ m}$

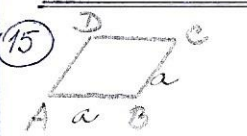
b) $o = 52,4 \text{ m}$
 $S = ?$
 $o = 4 \cdot a$ $S = a \cdot a$
 $52,4 = 4 \cdot a$
 $a = 52,4 : 4$ $S = 13,1 \cdot 13,1$
 $a = 13,1 \text{ m}$ $S = 171,61 \text{ m}^2$

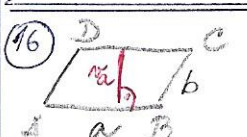
10)  $S = a \cdot b$ $o = 2 \cdot a + 2 \cdot b$
 $13,2 = 11 \cdot b$ $o = 2 \cdot 11 + 2 \cdot 12$
 $b = 13,2 : 11$ $o = 2,2 + 24$
 $b = 12 \text{ dm}$ $o = 26,2 \text{ dm}$
 $S = 13,2 \text{ dm}^2$
 $a = 0,11 \text{ m} = 1,1 \text{ dm}$
 $o = ?$

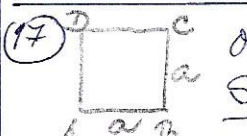
12)  $S = a \cdot n \cdot a$
 $S = 160 \cdot 40$
 $S = 6400 \text{ m}^2 = 64 \text{ ha}$
 $a = 160 \text{ m}$
 $b = 150 \text{ m}$
 $n_a = 40 \text{ m}$
 $S = ?$
 $o = ?$
 $1 \text{ m} \dots 65 \text{ Kč}$ $620 \cdot 65 = 40300 \text{ Kč}$
 Výměra pozemku je 64 ha, rozložená
 zaplatíme 40300 Kč.

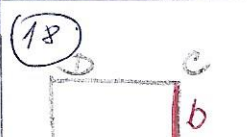
13) $a_1 = 4 \text{ cm}$ $a_2 = 8 \text{ cm}$ $22 \text{ m} : 11,2 = 2$
 $b_1 = 16 \text{ cm}$ $b_2 = 3,2 \text{ cm}$ $25,6 : 6,4 = 4$
 $o_1, S_1 = ?$ $o_2, S_2 = ?$
 $o_1 = 2 \cdot 4 + 2 \cdot 16$ $o_2 = 2 \cdot 8 + 2 \cdot 3,2$ $o_1 = 40$
 $o_1 = 8 + 3,2$ $o_2 = 16 + 6,4$ $o_2 = 22,4 \text{ cm}$
 $o_1 = 11,2 \text{ cm}$ $S_1 = 4 \cdot 16$ $S_2 = 8 \cdot 3,2$
 $S_1 = 64 \text{ cm}^2$ $S_2 = 25,6 \text{ cm}^2$
 Obvod je
 větší 2x,
 obsah je
 větší 4x.

14)  $S = a \cdot b$
 $S = 456 \cdot 42$
 $S = 19152 \text{ m}^2 = 1,9152 \text{ ha}$
 $a = 456 \text{ m}$
 $b = 42 \text{ m}$
 $S = ? (\text{ha})$

15)  $o = 4 \cdot a$
 $1728 = 4 \cdot a$
 $a = 1728 : 4$
 $o = 1728 \text{ m}$ $a = 432 \text{ m}$
 $a = ?$

16)  $S = a \cdot n \cdot a$
 $75,9 = a \cdot 6,9$
 $S = 0,759 \text{ m}^2 = 75,9 \text{ dm}^2$ $a = 75,9 : 6,9$
 $n_a = 6,9 \text{ dm}$ $a = 11 \text{ dm}$
 $a = ?$

17)  $o = 130 \text{ m}$
 $S = ?$
 $o = 4 \cdot a$ $S = a \cdot a$
 $130 = 4 \cdot a$ $S = 32,5 \cdot 32,5$
 $a = 130 : 4$ $S = 1056,25 \text{ m}^2$
 $a = 32,5 \text{ m}$

18)  $b = 26 \text{ m}$
 $S = 806 \text{ m}^2$
 $o = ?$
 $S = a \cdot b$ $o = 2 \cdot a + 2 \cdot b$
 $806 = a \cdot 26$ $o = 2 \cdot 31 + 2 \cdot 26$
 $a = 806 : 26$ $o = 62 + 52$
 $a = 31 \text{ m}$ $o = 114 \text{ m}$
 Budou natírat 114 m plotu.