

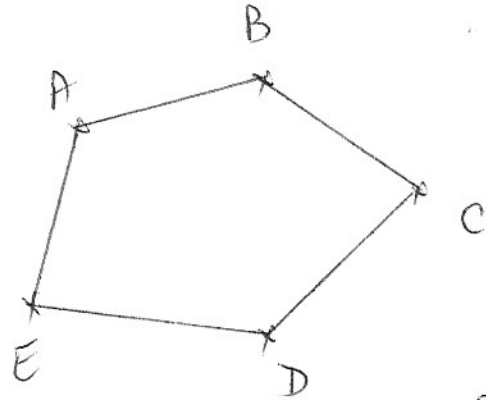
PERIMETRUL

Def: Perimetrul unei figuri geometrice mărginite de segmente de dreaptă este egal cu suma lungimilor acestor segmente.

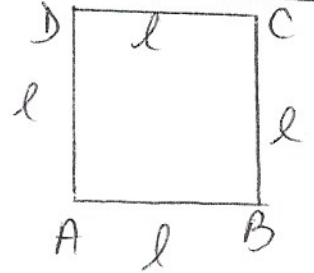
Se not. cu P .

Ex:

$$P_{ABCDE} = AB + BC + CD + DE + EA$$

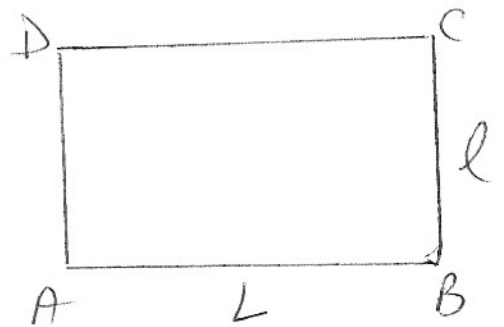


1. Perimetrul unui pătrat de latură l este $P = 4 \cdot l$

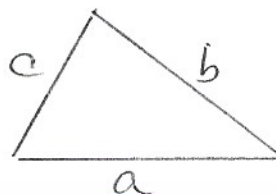


2. Perimetrul unui dreptunghi cu lungimea L și lățimea l este $P = 2 \cdot L + 2 \cdot l$

$$P = 2 \cdot (L + l)$$



3. Perimetrul unui triunghi cu lungimile laturilor a, b, c este $P = a + b + c$



15/203 ^{man} $l_{\text{vlad}} = 26,8 \text{ cm} = 26,8 \cdot 10 \text{ mm} = 268 \text{ mm}$

$l_{\text{lucia}} = 277 \text{ mm} = 277 \text{ mm}$

$l_{\text{dina}} = 2,72 \text{ dm} = 2,72 \cdot 100 \text{ mm} = 272 \text{ mm}$

$l_{\text{carte}} = 20\% \cdot 1,36 \text{ m} = \frac{20}{100} \cdot 1360 \text{ mm} = 272 \text{ mm} \Rightarrow$

\Rightarrow Dina a măsurat corect.

16/203. $P_{\Delta} = 354 \text{ cm}$

$a, b, c = \text{laturii} = ?$

$a = x, b = x + 2, c = x + 4$

$P = a + b + c \Rightarrow x + x + 2 + x + 4 = 354$

$3x + 6 = 354$

$3x = 354 - 6$

$3x = 348 \Rightarrow x = 348 : 3$

$x = 116 \text{ cm} \Rightarrow$

$\Rightarrow a = 116 \text{ cm}, b = 118 \text{ cm}, c = 120 \text{ cm}$

17/203. $P_{\text{drept.}} = 48 \text{ m}$

$L, l = ?$

$L = 3 \cdot l$

R: $P = 2 \cdot L + 2 \cdot l \Rightarrow 2 \cdot 3 \cdot l + 2 \cdot l = 48$

$8 \cdot l = 48 \Rightarrow l = 6 \text{ cm} \Rightarrow L = 18 \text{ cm}$

19/203. ~~lat~~ L, l - dimensiuni drept.

$L + 2 = l + 3 = \text{lat. pătrat}$

$P_{\text{pătrat}} = 49 \text{ cm} \Rightarrow \text{lat. pătrat} = 49 : 4 = 12,25 \text{ cm}$

$L + 2 = 12,25 \text{ cm} \Rightarrow L = 10,25 \text{ cm}$

$l + 3 = 12,25 \text{ cm} \Rightarrow l = 9,25 \text{ cm}$

$\Rightarrow P_{\text{dr}} = 2 \cdot 10,25 + 2 \cdot 9,25 = 20,5 + 18,5 = 39 \text{ cm}$

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ca. 10, 11, 12, 14, 18.