

## Greiðslurokning 19. maí 2017

1

a

Kostnaður fyrir allan flokkinn  $23 * 150 =$  **3450 kr.**

b

Tey fáa fyrir fløskurnar

Aluminiumsblikk	$142 * 2 =$	284 kr
Plastfløskur 0,5 l	$187 * 2 =$	374 kr
Plastfløskur 1,5 l	$73 * 4 =$	292 kr
Vínfløskur	$18 * 2,50 =$	45 kr
Tilsamans		<b>995 kr</b>

c

Írestandi peningur  $3450 - 995 =$  **2455 kr**

d

At gjalda í part  $\frac{2455}{23} \approx$  **107 kr**

e

Pant í % av øllum prísinum  $\frac{4 * 100}{29,95} \approx$  **13,4%**

2

a

$$\begin{aligned} 1 \text{ litur} &= 1 \text{ dm}^3 \\ 0,5 \text{ litur} &= 0,5 \text{ dm}^3 \\ 0,5 \text{ dm}^3 &= 0,5 * 1000 = \quad \quad \quad \mathbf{500 \text{ cm}^3} \end{aligned}$$

b

Vídd á botninum

$$\begin{aligned} v &= \pi * r^2 \\ v &= \pi * 2,5^2 \\ \mathbf{Víddin} &\approx \mathbf{19,6 \text{ cm}^2} \end{aligned}$$

c

Rúmdin á keylustubba  $= 1/3 * h * \pi * (r_m^2 + r_s^2 + r_m * r_s)$

$$\begin{aligned} 500 \text{ cm}^3 &= 1/3 * \text{hædd} * \pi * (2,5^2 + 3,5^2 + 2,5 * 3,5) \\ 500 \text{ cm}^3 &= 1/3 * \text{hædd} * \pi * 27,25 \end{aligned}$$

$$\frac{500 * 3}{\pi * 27,25} = \text{hædd}$$

$$\mathbf{\text{hæddin} \approx 17,5 \text{ cm}}$$

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d

Efnisnøgdin á glasi er  $2,3 \text{ g/cm}^3$

Vekt = rúmd \* efnisnøgd

$157 \text{ g} = \text{rúmd} * 2,3 \text{ g/cm}^3$

$$\text{Rúmd} = \frac{157}{2,3}$$

Rúmd á sjálvum glasinum  $\approx$   **$68,3 \text{ cm}^3$**

e

Vekt = rúmd \* efnisnøgd

Vekt, um glasið var gjørt úr tundri =  $68,3 \text{ cm}^3 * 0,2 \text{ g/cm}^3$

Vekt, um glasið var gjørt úr tundri =  **$13,66 \text{ g}$**

4

a

Vídd á tríkantinum ABC  $\frac{12*5}{2} = \mathbf{30 \text{ m}^2}$

b

Longdin á c

$$c^2 = 12^2 + 5^2$$

$$c^2 = 144 + 25$$

$$c^2 = 169$$

$$c = \sqrt{169}$$

$$\mathbf{c = 13 \text{ m}}$$

c

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{5}{\sin A} = \frac{12}{\sin B} = \frac{13}{\sin 90}$$

$$\frac{5}{\sin A} = \frac{13}{\sin 90}$$

$$\sin A * 13 = 5 * \sin 90$$

$$\sin A = \frac{5 * \sin 90}{13}$$

$$\sin A = 0,384615$$

$$\mathbf{A \approx 22,6^\circ}$$

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d

$$\text{Vinkul B} = 180^\circ - (90^\circ + 22,6^\circ)$$

$$\text{Vinkul B} = 180^\circ - 112,6^\circ$$

$$\text{Vinkul B} = 67,4^\circ$$

5

a

$$100 \text{ USD} = 702,66 \text{ kr}$$

$$29 \text{ USD} = \frac{702,66 \cdot 29}{100}$$

$$\mathbf{29 \text{ USD} \approx 203,8 \text{ kr}}$$

b

$$702,66 \text{ kr} = 100 \text{ USD}$$

$$299 \text{ kr} = \frac{100 \cdot 299}{702,66} \text{ USD}$$

$$\mathbf{299 \text{ kr} \approx 42,6 \text{ USD}}$$

c

$$\text{Munur í prís} \quad 299 - 203,8 = 95,2 \text{ kr}$$

$$\text{Munur í \%} \quad \frac{95,2 \cdot 100}{203,8}$$

$$\mathbf{\text{Munur í \%} \quad 46,7\%}$$

d

Áðrenn eg geri USD til GBP, má eg gera USD til f. kr.

$$100 \text{ USD} = 702,66$$

$$125 \text{ USD} = \frac{702,55 \cdot 125}{100}$$

$$125 \text{ USD} = 878,2 \text{ kr}$$

Síðani geri eg um til GBP

$$858,38 \text{ kr} = 100 \text{ GBP}$$

$$878,2 \text{ kr} = \frac{100 \cdot 878,2}{858,38}$$

$$\mathbf{878,2 \text{ kr} = 102,3 \text{ GBP}}$$