

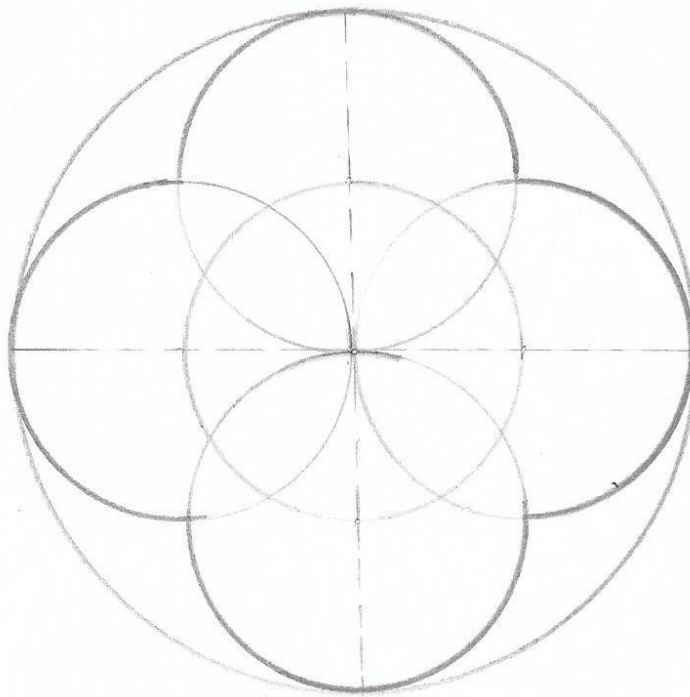
## Lösungen Aufnahmeprüfung 2017

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1.  $62 \cdot (27500 \text{ g} - 9,5 \text{ kg}) = 62 \cdot (27,5 \text{ kg} - 9,5 \text{ kg}) = 62 \cdot 18 \text{ kg} = 1116 \text{ kg} = \underline{\underline{1,116 \text{ t}}}$

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2.



3.  $21,25 - 4\frac{1}{2} + 3\frac{4}{5} = \frac{85}{4} - \frac{9}{2} + \frac{19}{5} = \frac{85 \cdot 5 - 9 \cdot 10 + 19 \cdot 4}{20} = \frac{411}{20} = 20\frac{11}{20}$

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4. Billiger:  $350 \text{ g} \xrightarrow{:7} 50 \text{ g} \xrightarrow{\cdot 20} 1000 \text{ g} = 1 \text{ kg}$

$6,30 \text{ Fr.} \xrightarrow{:7} 0,90 \text{ Fr.} \xrightarrow{\cdot 20} \underline{\underline{18 \text{ Fr.}}}$

Teurer:  $18 \text{ Fr.} + 2,40 \text{ Fr.} = 20,40 \text{ Fr.}$

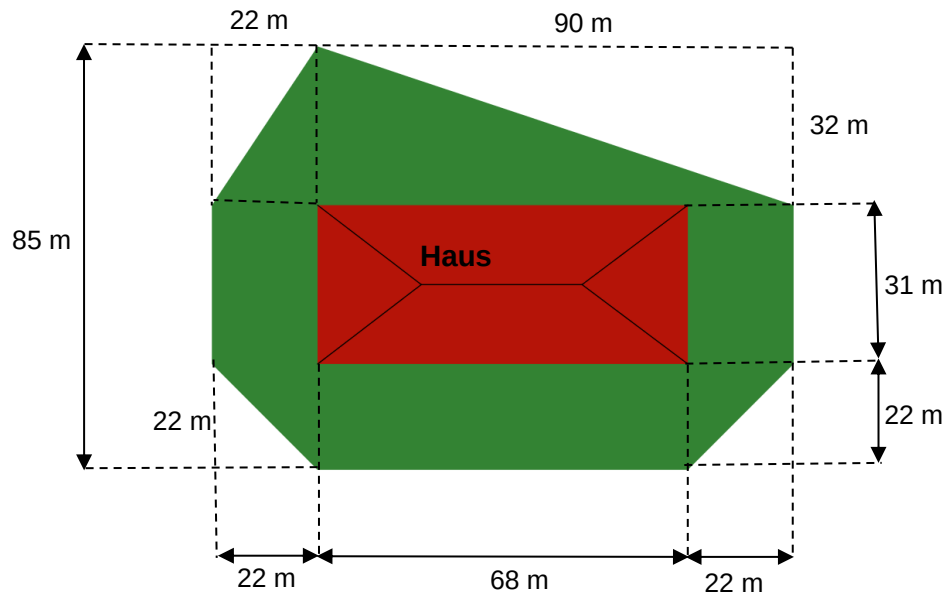
$1 \text{ kg} \xrightarrow{\cdot 1,25} 1,25 \text{ kg}$

$20,40 \text{ Fr.} \xrightarrow{\cdot 1,25} \underline{\underline{25,50 \text{ Fr.}}}$

oder  $20,40 : 4 = 5,10 \text{ Fr.} \Rightarrow 5,10 \text{ Fr.} \cdot 5 = \underline{\underline{25,50 \text{ Fr.}}}$

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5.



a)

$$\begin{aligned}
 &22 \text{ m} \cdot 22 \text{ m} = 484 \text{ m}^2 \\
 &2 \cdot 22 \text{ m} \cdot 31 \text{ m} = 1364 \text{ m}^2 \\
 &68 \text{ m} \cdot 22 \text{ m} = 1496 \text{ m}^2 \\
 &\frac{32 \cdot 22}{2} = 352 \text{ m}^2 \\
 &\frac{90 \cdot 32}{2} = 1440 \text{ m}^2
 \end{aligned}
 \quad \left. \vphantom{\begin{aligned} &22 \text{ m} \cdot 22 \text{ m} = 484 \text{ m}^2 \\ &2 \cdot 22 \text{ m} \cdot 31 \text{ m} = 1364 \text{ m}^2 \\ &68 \text{ m} \cdot 22 \text{ m} = 1496 \text{ m}^2 \\ &\frac{32 \cdot 22}{2} = 352 \text{ m}^2 \\ &\frac{90 \cdot 32}{2} = 1440 \text{ m}^2 \end{aligned}} \right\} +$$

$$= \underline{\underline{5136 \text{ m}^2}}$$

b)  $5136 : 3 = 1712$

$1712 \cdot 2 = \underline{\underline{3424 \text{ Fr.}}}$

6. a)

|           |           |
|-----------|-----------|
| <u>10</u> | <u>16</u> |
| <u>13</u> | <u>22</u> |

b)  $4 + 149 \cdot 3 = \underline{\underline{451}}$

oder

$3 \cdot 150 + 1 = \underline{\underline{451}}$

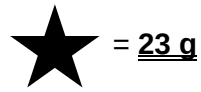
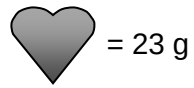
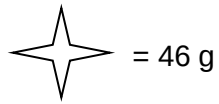
$4 + 149 \cdot 6 = \underline{\underline{898}}$

oder

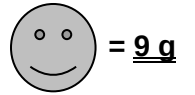
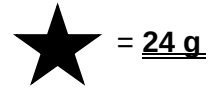
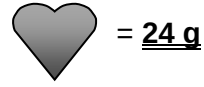
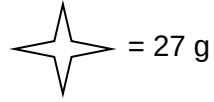
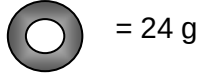
$6 \cdot 150 - 2 = \underline{\underline{898}}$

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7. a)



b)



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8.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| A | A | B | B | C | A | C | B | A | C  | B  | C  | B  | C  | B  | C  | B  | A  | A  | B  |