

Rješenja - 2. dio

$$\begin{aligned} \textcircled{1} \quad \frac{1}{3} : \left(-\frac{5}{6}\right) + \left(\frac{1}{3} - \left(-\frac{5}{6}\right)\right) &= \frac{1}{3} \cdot \left(-\frac{6}{5}\right) + \left(\frac{1}{3} + \frac{5}{6}\right) = \\ &= -\frac{2}{5} + \left(\frac{2}{6} + \frac{5}{6}\right) = \\ &= -\frac{2}{5} + \frac{7}{6} = \\ &= -\frac{12}{30} + \frac{35}{30} = \\ &= \frac{23}{30} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad A &= \{16, 26, 36, 46, 56, 66, 76, 86, 96\} \\ B &= \{16, 24, 32, 40, 48, 56, 72, 80, 88, 96\} \end{aligned}$$

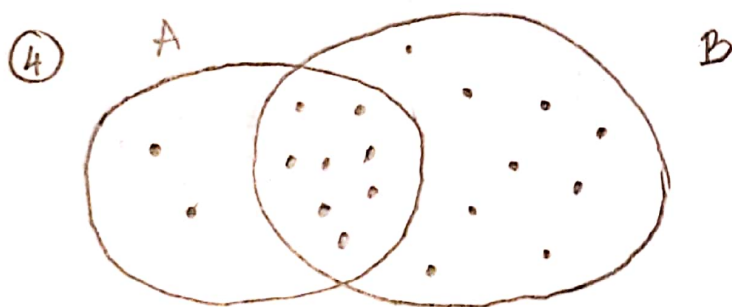
$$a) A \cap B = \{16, 56, 96\}$$

$$b) A \cup B = \{16, 24, 26, 32, 36, 40, 46, 48, 56, 66, 72, 76, 80, 86, 88, 96\}$$

$$c) C = \{26, 46\} \rightarrow \text{jedna od mogućnosti}$$

$$d) D = \{1, 50, 79\} \rightarrow \text{jedna od mogućnosti}$$

$$\begin{aligned} \textcircled{2} \quad 2,1 &= \frac{21}{10} \rightarrow \frac{10}{21} \\ -\frac{4}{5} &\rightarrow -\frac{5}{4} \end{aligned} \left. \vphantom{\begin{aligned} 2,1 &= \frac{21}{10} \rightarrow \frac{10}{21} \\ -\frac{4}{5} &\rightarrow -\frac{5}{4} \end{aligned}} \right\} \frac{10}{21} \cdot \left(-\frac{5}{4}\right) = -\frac{25}{42}$$



$$2 + 8 + 9 = 19$$

$$k(A \cup B) = 19$$

5. $A = \{2, 5, 8, 11, 14, 17\}$

$B = \{1, 5, 8, 9, 13, 17, 18\}$

$C = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18\}$

a) $A \cap C = \{2, 5, 8, 11, 14, 17\}$

b) $A \cup B = \{1, 2, 5, 8, 9, 11, 13, 14, 17, 18\}$

$D = \{3, 4, 6, 7, 10, 12, 15, 16\}$

ONI KOJI NISU U AUB,
a JESU U C.

6. $5 \cdot 10^{-9} \text{ g} = 5 \cdot 10^{-9} \cdot 10^{-3} \text{ kg} = 5 \cdot 10^{-12} \text{ kg}$

ili

$5 \cdot 10^{-9} \text{ g} = 0,000\,000\,005 \text{ g} =$

$= 0,000\,000\,000\,005 \text{ kg} =$

$= 5 \cdot 10^{-12} \text{ kg}$

7. $\begin{array}{ll} \text{Lara} & x \rightsquigarrow 12 \text{ slićica} \\ \text{Jan} & 3x \rightsquigarrow 36 \text{ slićica} \end{array}$

$x + 3x = 48$

$4x = 48 \quad |:4$

$x = 12$

II. način:

1. broj $2n$

2. broj $2n+2$

$2n + (2n+2) = -250$

$2n + 2n + 2 = -250$

$4n = -250 - 2$

$4n = -252 \quad |:4$

$n = -63$

1. broj $\rightarrow 2 \cdot (-63) = -126$

2. broj $\rightarrow 2 \cdot (-63) + 2 = -126 + 2 = -124$

8. I. način

$x + (x+2) = -250$

$x + x + 2 = -250$

$2x = -250 - 2$

$2x = -252$

$x = -126$

1. broj $= -126$

2. broj $= -126 + 2 = -124$

$$\textcircled{9} \quad \begin{aligned} a &= b - 1.2 \\ \sigma &= 4 \text{ cm} \end{aligned}$$

$$a = 1.6 - 1 = \underline{\underline{0.6 \text{ cm}}}$$

$$\sigma = 2a + 2b$$

$$4 = 2 \cdot (b - 1.2) + 2b$$

$$4 = 2b - 2.4 + 2b$$

$$4 = 4b - 2.4$$

$$-4b = -2.4 - 4$$

$$-4b = -6.4 \quad | :(-4)$$

$$\underline{\underline{b = 1.6}}$$

$$\textcircled{10} \quad \frac{5-x}{3-x} = -3 \quad | \cdot (3-x)$$

$$5-x = -3(3-x)$$

$$5-x = -9+3x$$

$$-x-3x = -9-5$$

$$-4x = -14$$

$$x = \frac{14}{4}$$

$$x = \frac{7}{2}$$

$$\underline{\underline{\quad \quad \quad}}$$

$$\textcircled{11} \quad \begin{aligned} \text{tenisice} &= x \\ \text{majica} &= \frac{7}{5}x \end{aligned}$$

$$x + \frac{7}{5}x = 648 \quad | \cdot 5$$

$$5x + 7x = 3240$$

$$12x = 3240 \quad | :12$$

$$x = 270$$

$$\underline{\underline{\quad \quad \quad}}$$

$$\downarrow$$

$$\text{tenisice}$$

$$\underline{\underline{\quad \quad \quad}}$$

$$\frac{7}{5}x = \frac{7}{5} \cdot 270 = \frac{1890}{5} = 378 \text{ km}$$

$$\underline{\underline{\quad \quad \quad}}$$

$$\downarrow$$

$$\text{majica}$$