

La somma di due segmenti è 87 cm e la loro differenza è di 35 cm. Calcola la misura di ciascun segmento.

$$\overline{AB} + \overline{CD} = 87 \text{ cm}$$

$$\overline{AB} - \overline{CD} = 35 \text{ cm}$$

$$\overline{AB}, \overline{CD} = ?$$



$$\begin{aligned} \overline{CD} &= 1p \quad 35 \text{ cm} \\ \overline{AB} &= 1p + m \\ &= 1p + 35 \text{ cm} \end{aligned}$$

$$\begin{aligned} \overline{AB} + \overline{CD} &= (1p + m) + 1p = 2p + m \\ 2p + m &= 87 \text{ cm} \end{aligned}$$

mar 5-11.18

$$2p + m = 87$$

$$\text{HH} \cancel{m} \quad 87$$

$$2p = 87 - m \quad \text{Togli } m$$

$$1p = \frac{87 - m}{2} \quad \text{HH}$$

$$1p = \frac{87 - 35}{2} = \frac{52}{2} = 26$$

$$\overline{CD} = 1p = 26 \text{ cm}$$

$$\begin{aligned} \overline{AB} &= 1p + m = 26 + 35 \\ &= 61 \text{ cm} \end{aligned}$$

mar 5-11.45

$$A = \frac{3}{4} B$$

$$A = 3p$$

$$A + B = 140$$

$$B = 4p$$

$$\begin{aligned} A + B &= 3p + 4p = 7p \\ 7p &= 140 \text{ cm} \\ p &= \frac{140}{7} \end{aligned}$$

mar 5-11.37