

Aufgabenblatt 2 zu den Strahlensätzen

Lösungen

1a) $\frac{x}{2.25} = \frac{5.58}{4.05}$
 $x = 3.1cm$

b) $\frac{x}{25.28} = \frac{4}{15.8}$
 $x = 6.4cm$

c) $\frac{x}{4.8} = \frac{7}{5.6}$
 $x = 6cm$

2a) $\frac{x}{15.4} = \frac{4.8}{4.4}$
 $x = 16.8cm$

b) $\frac{x}{12} = \frac{18}{15}$
 $x = 14.4cm$

c) $\frac{x}{5.76} = \frac{18}{9.6}$
 $x = 10.8cm$

$\frac{y}{3.6} = \frac{15.4}{4.4}$
 $y = 12.6cm$

$\frac{y}{15} = \frac{22.8}{18}$
 $y = 19cm$

$\frac{y}{9.6} = \frac{10.08}{5.76}$
 $y = 16.8cm$

3a) $\frac{x}{3.5} = \frac{9}{6}$
 $x = 5.25cm$

$\frac{y}{6} = \frac{6}{9}$
 $y = 4cm$

$\frac{z}{2.4} = \frac{4}{6}$
 $z = 1.6cm$

b) $\frac{x}{2.5} = \frac{2.4}{4}$
 $x = 1.5cm$

$\frac{y}{3} = \frac{1.5}{2.5}$
 $y = 1.8cm$

$\frac{z}{3} = \frac{5.5}{2.5}$
 $z = 6.6cm$

4a) $\frac{x}{82.5} = \frac{78}{110}$

$x = 58.5m$

Der Zaun ist 58.5m breit!

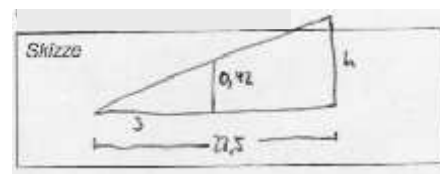
b) $\frac{x}{60} = \frac{6.5}{12.5}$

$x = 31.2m$

Der Fluss ist 31.2m breit!

c) $\frac{3}{0.42} = \frac{22.5}{h}$

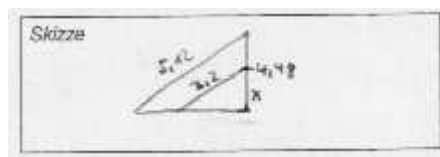
$h = 3.15km$



Das Flugzeug befindet sich auf 3.15km Höhe!

d) $\frac{3.2}{x} = \frac{5.15}{4.48}$

$x = 2.8m$



Die Leiter lehnt in einer Höhe von 2.8m an.