

xx Minuten

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1. Berechne die Länge der Strecke x

(6P)

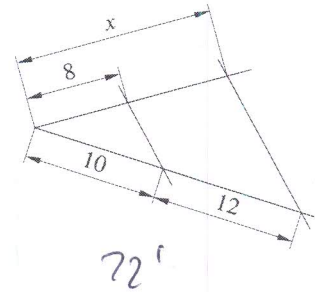
4P

$$\frac{8}{10} = \frac{x}{22}$$

(2P)

$$x = \frac{22 \cdot 8}{10} = \frac{176}{10} = 17,6$$

(2P)



2. Bestimme rechnerisch die fehlenden Größen.

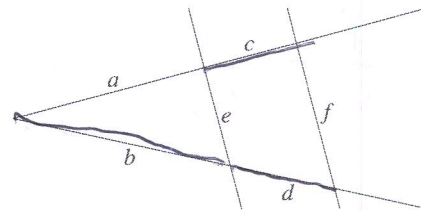
(3P)

a	b	c	d	e	f
2m	3m	4m	60dm	200cm	

$$\frac{c}{d} = \frac{a}{b} \quad (=) \quad \frac{4}{6} = \frac{a}{3} \quad (=) \quad \underline{a=2}$$

$$\frac{e}{b} = \frac{f}{b+d} \quad (=) \quad \frac{2}{3} = \frac{f}{3+6} \Rightarrow \underline{f=6}$$

1.12



3. Überprüfe, ob das Dreieck Rechtwinklig ist:

(2P)

3P

a = 10cm, b = 60mm, c = 8cm

$$a^2 = b^2 + c^2$$

$$(\Rightarrow) 10^2 = 6^2 + 8^2$$

$$(\Rightarrow) 100 = 36 + 64 \quad \checkmark$$

Ja! (1P)

4. Bestimme die fehlende Seite:

3P

w = 4,5cm; v = 2cm

$$u^2 = w^2 - v^2$$

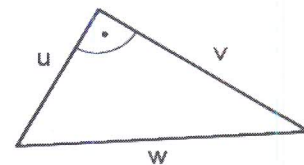
$$(\Rightarrow) u^2 = 4,5^2 - 2^2$$

$$(\Rightarrow) u^2 = 20,25 - 4$$

$$(\Rightarrow) u^2 = 16,25$$

$$\Rightarrow \underline{u \approx 4,03 \text{ cm}}$$

2.88'



Note	6	5-	5	5+	4-	4	4+	3-	3	3+	2-	2	2+	1-	1	1+
Punkte	0	2	3	4	5	6	7	7	8	8	9	9	10	10	11	11

Musterlösung zu Aufgabe 2 im
anderen Kurztest (B)

$$\frac{a}{b} = \frac{c}{d}$$

$$\frac{S_{\text{un}}}{P_{\text{un}}} = \frac{10 \text{ m}}{d}$$

$$\frac{8}{5} = \frac{d}{10} \quad \Rightarrow \quad d = 16 \text{ m}$$

$$\frac{e}{a} = \frac{f}{a+c}$$

$$\frac{e}{S_{\text{un}}} = \frac{21}{15 \text{ m}} \Rightarrow \underline{\underline{e = 2 \text{ m}}}$$