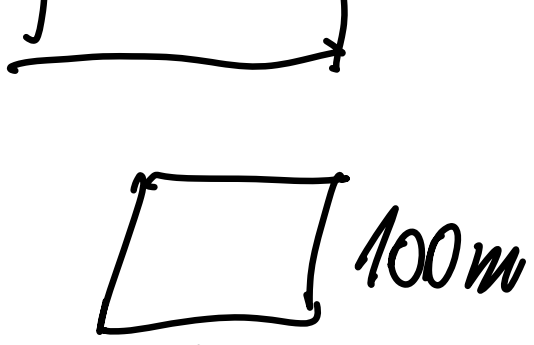
2.2 $\boxed{36\ ha}$



1 ha – 10 000 m^2
36 ha – 360 000 m^2

$S=a^2$ $\sqrt{360000}=\sqrt{36\cdot 10000}=$
$=\sqrt{36}\cdot\sqrt{10000}=6\cdot 100=600m$
$600\cdot 4=2400\ m$

7.1. A 1 min $\frac{1}{12}$
x min $\frac{x}{12}$
B 1 min $\frac{1}{4}$
x min $\frac{x}{4}$

$\frac{x}{12}+\frac{x}{4}=1 \ \Big|\cdot 12$
$x+3x=12$
$4x=12 \ |:4$
$\underline{x=3}$ min

A sní $\frac{1}{4}$ z 200g ... 50g
B 150g 50 : 150
1 : 3

15.1. 115% 506
1% ... 506 : 115 = 4,4
-460
460

15% ... 15 · 4,4 =
= 1,5 · 44 = 66

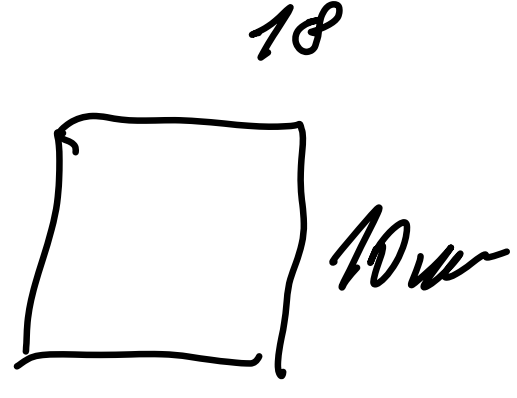
15.2. 2 hrušně po slevě 234 kč
1 hrušeň 117 kč

1 jabloň 150 kč
$\frac{2}{3}$ ... 150 kč
$\frac{1}{3}$ ... 75 kč
$\frac{3}{3}$ ... 225 kč

1 hrušeň před sl. 225 kč
1 hrušeň po sl. 117 kč
sleva 108 kč

100% .... 225 kč
1% .... 2,25 kč
?% ... 108 : 2,25 = 48 %
-9
18

15.3 1 ar



1 ar = 100 m^2
150 ar = 15000 m^2
$\frac{3}{\cancel{20}_1}\cdot\frac{\overset{750}{\cancel{15000}}}{1}=2250\ m^2$

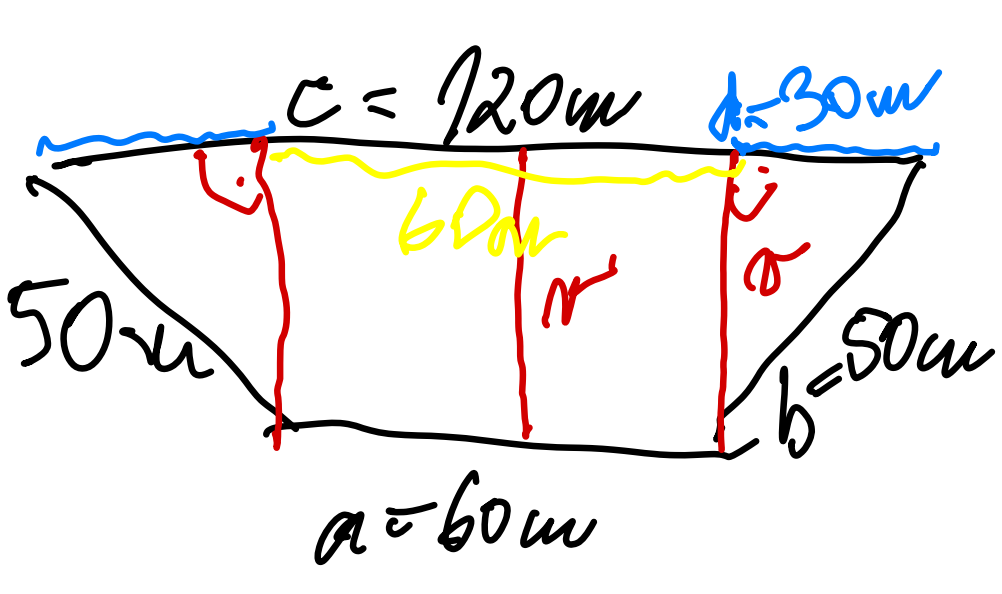
100% ... 2250 m^2
1% ... 22,5 m^2
2% ... 45 m^2

6.1. 20$\boxed{1}$6

6.2. 20$\boxed{1}$6
20$\boxed{5}$6
20$\boxed{9}$6

6.3 20$\boxed{1}$6
20$\boxed{4}$6
20$\boxed{7}$6

8.1.



o = 50+60+50+120 = 280m

8.2. $S=\frac{a+c}{2}\cdot v$
$b^2=d^2+v^2$
$50^2=30^2+v^2$
$50^2-30^2=v^2$
$2500-900=v^2$
$1600=v^2$
$\sqrt{1600}=v$
$\sqrt{16\cdot 100}=v$
$\sqrt{16}\cdot\sqrt{100}=v$
$4\cdot 10=v$
$40m=v$

$S=\frac{a+c}{2}\cdot v=\frac{60+120}{2}\cdot 40=$
$=90\cdot 40=3600\ m^2$

$\frac{8}{\cancel{9}_1}\cdot\frac{\overset{400}{\cancel{3600}}}{1}=3200\ m^2$

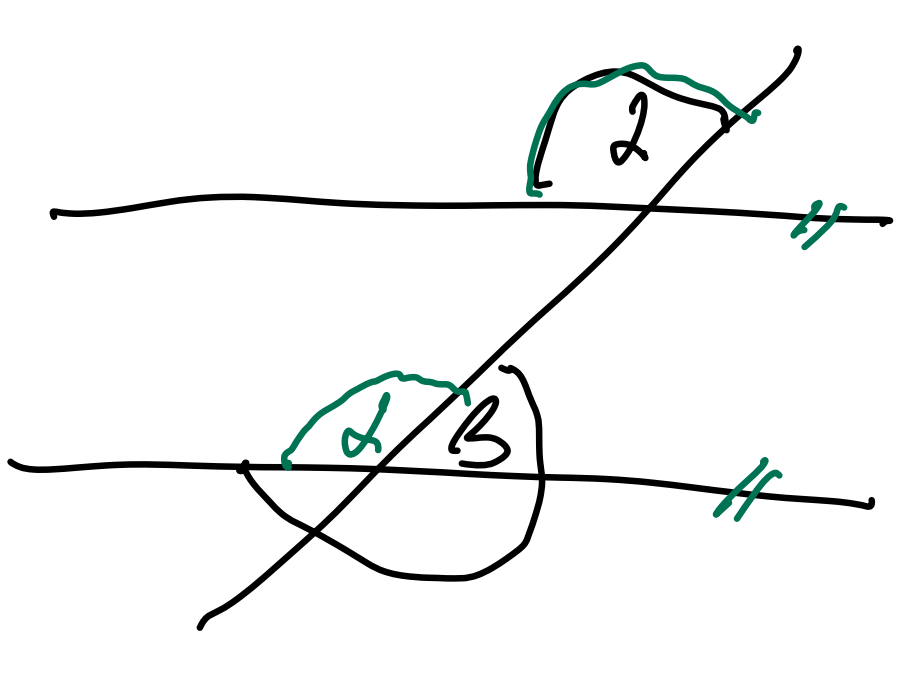
12.

144	1
72	2
36	4
24	6
18	8

96	1
48	2
32	3
24	4

120	1
60	2
40	3
30	4
24	5

14



360° 0′ − 121° 40′ = 238° 20′

3.1 $\frac{2\frac{1}{3}+\frac{1}{6}}{1\frac{1}{3}-2\frac{1}{4}}=\frac{\frac{7}{3}+\frac{1}{6}}{\frac{4}{3}-\frac{9}{4}}=$

$=\frac{\frac{14+1}{6}}{\frac{16-27}{12}}=\frac{\frac{15}{6}}{-\frac{11}{12}}=$

$=\frac{15}{6}:\left(-\frac{11}{12}\right)=\frac{15}{\cancel{6}_1}\cdot\left(-\frac{\overset{2}{\cancel{12}}}{11}\right)=$
$=-\frac{30}{11}$

3.2 $(-0,1)^2:(0,5-0,2\cdot 1,25)=$
$=0,01:(0,5-2\cdot 0,125)=$
$=0,01:(0,5-0,25)=$
$=0,01:0,25=$
$=\frac{1}{100}:\frac{1}{4}=\frac{1}{\cancel{100}_{25}}\cdot\frac{\overset{1}{\cancel{4}}}{1}=\frac{1}{25}$

1 $\frac{1}{5}\cdot\frac{1}{4}=\frac{1}{20}$ hodiny

11

1 l = 1 dm^3
1000 l = 1000 dm^3 = 1 m^3

$V=a^3$
$1=a^3 \ |\sqrt[3]{\ }$
$\sqrt[3]{1}=a$
$1m=a$

11.1. $S=6a^2$
$S=6m^3$