

5

7 - 11 - 14

6 - 7 - 9

→ 13, 14, 16, 17, 18, 20, 21, 23

14/20 - 17/23 → 14 ou 17

6

A	B	C	
B	C	A	B
A	B	C	
B	C	A	B

$$4A + 6B + 4C$$

$$4(7+8) + 6 \times 6 = \boxed{36}$$

7

~~8/10/02~~ $d = \sqrt{1+9} = \sqrt{10}$

$$\sqrt{\frac{1}{4} + \frac{25}{4}} = \frac{\sqrt{26}}{2} = \sqrt{\frac{13}{2}}$$

5 sol:

8

G → sortie

J → G

BJG

B → J

entrée → B

9

$$55 / 5 = 11$$

10

S: GT

Δ: PT

$$\Delta = S/4$$

$$5S - 4\Delta = 4S = 0,95 \times 4 = 3,8 \text{ dm}^2$$

(11)

20h → 16h40: 20h40 = ~~20~~ 20 + $\frac{2}{3}$

1h → 1,15h

$(20 + \frac{2}{3}) \times 1,15$ ~~$\frac{2 \times 1,15}{3}$~~ = $23 + \frac{2,3}{3} = 23h46$

→ 3h46 ~~20h~~

(12)

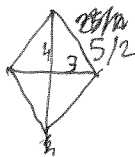


$xy = ab/2$

$2(x+y) = 4\sqrt{a^2/4 + b^2/4}$

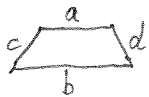
$\begin{cases} x+y = \sqrt{a^2+b^2} \\ 2xy = ab \end{cases} \rightarrow x^2 + y^2 + \frac{2xy}{ab} = a^2 + b^2$

$a=3, b=4 \rightarrow x+y=5, xy=6$
→ 2+3

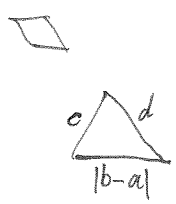
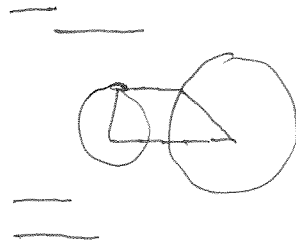


→ $p = \boxed{10}$ cm

(13)



$b \geq a, c \geq d$
 $c+d > a+b$ ~~$a+b < |b-a|$~~
 ~~$c+d < |b-a|$~~



- $b=7, a=1$ imp.
- $b=6, a=1$ imp.
- $b=5, a=4, c=1, d=1 \rightarrow 1$
- $b=5, a=3, c=2, d=1 \rightarrow$
- $b=5, a=2, \begin{cases} c=3, d=1 \\ c=2, d=2 \end{cases}$
- $b=5, a=1$

b	a	c	d	$a-d$	$d-c \leq b-a $
5	4	1	1	(4, 3, 2, 2)	(3, 1, 4, 3)
5	3	2	1	(4, 2, 3, 2)	(2, 1, 4, 4)
5	2	3	1	(4, 1, 3, 3)	→ 13
5	2	2	2	(4, 1, 4, 2)	
5	1	4	1	(3, 2, 3, 3)	
5	1	3	2		

14

1 2 3 4 5 6 7 8 9
2 5 8 7 1 9 3 4 6 0 7 X

~~4 5 6 7 8 9~~ 1 - X → 1

1 2 3 4 5 6 7
0 4 9 1 3 2 9 0 0 0 0 0 0

6 - 8

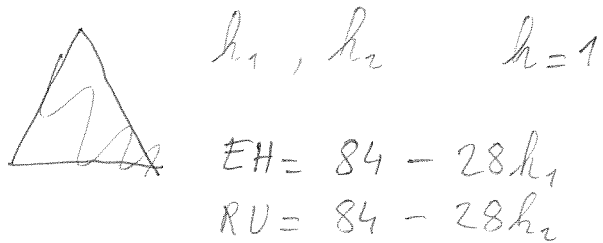
~~8~~

+5 → 0

+5k ≡ 3 k=5

→ ^{1 2 3 4 5 6 7} 0 4 9 1 8 2 9 0 0 0 → 8 → 18

(15)



$$h_1, h_2 \quad h=1$$

$$EH = 84 - 28h_1$$

$$RU = 84 - 28h_2$$

~~EF = 56h1~~

$$EF = 56h_1 \rightarrow 56h_1 = \frac{1}{3}(84 - 28h_1)$$

$$\rightarrow 4 \times 3h_1 = 6 - 2h_1$$

$$\rightarrow h_1 = 6/14 = 3/7$$

$$\rightarrow EH = 84 - 12 = \underline{\underline{72}}$$

$$RS = 84(1 - h_2) \rightarrow 6(1 - h_2) = \frac{1}{3}(6 - 2h_2)$$

$$\rightarrow 18 - 18h_2 = 6 - 2h_2$$

$$\rightarrow 16h_2 = 12 \rightarrow h_2 = 3/4$$

$$\rightarrow RU = 84 - 21 = \underline{\underline{63}}$$

$$72 + 63 = \boxed{135}$$