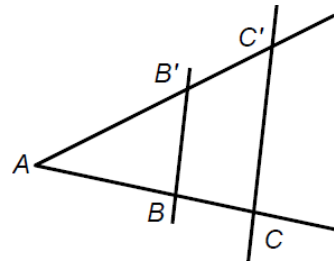


## Géométrie : Série 4

Ne pas écrire sur l'énoncé !

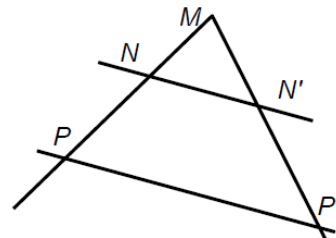
## Exercice 1 :

$BB' \parallel CC'$   
 $AB = 33 \text{ cm}$   
 $AC = 55 \text{ cm}$   
 $AB' = 39 \text{ cm}$   
 Calculez  $AC'$



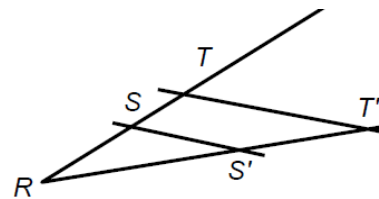
## Exercice 2 :

$NN' \parallel PP'$   
 $MN = 32 \text{ mm}$   
 $NP = 48 \text{ mm}$   
 $MP' = 105 \text{ mm}$   
 Calculez  $MN'$



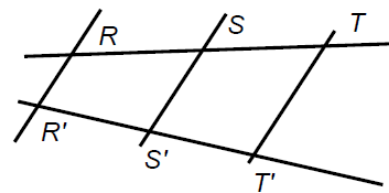
## Exercice 3 :

$SS' \parallel TT'$   
 $RS = 35 \text{ cm}$   
 $ST = 21 \text{ cm}$   
 $RS' = 55 \text{ cm}$   
 Calculez  $S'T'$



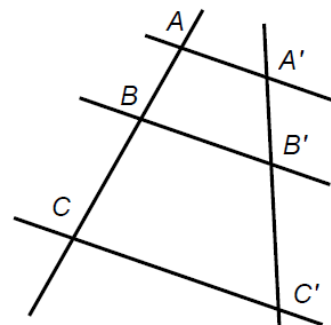
## Exercice 4\* :

$RR' \parallel SS' \parallel TT'$   
 $R'S' = 45 \text{ cm}$   
 $R'T' = 95 \text{ cm}$   
 $RS = 48 \text{ cm}$   
 Calculez  $RT$ . Si  $SS' = 20 \text{ cm}$ , peut-on calculer  $TT'$  ?



## Exercice 5 :

$AA' \parallel BB' \parallel CC'$   
 $AB = 24 \text{ mm}$   
 $BC = 36 \text{ mm}$   
 $A'B' = 30 \text{ mm}$   
 $AA' = 24 \text{ mm}$   
 $BB' = 34 \text{ mm}$   
 Calculez  $B'C'$  et  $CC'$



**Exercice 6 :**

$BB' \parallel CC'$  et  $AB' \perp BB'$

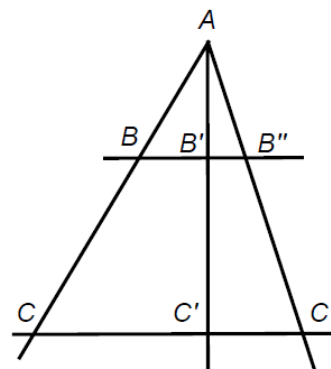
$AB = 30 \text{ mm}$

$AB' = 24 \text{ mm}$

$BC = 50 \text{ mm}$

$AB'' = 25 \text{ mm}$

Calculez  $BB'$ ,  $CC'$ ,  $B'B''$ ,  $C'C''$ ,  $AC''$  et  $B'C'$

**Exercice 7 :**

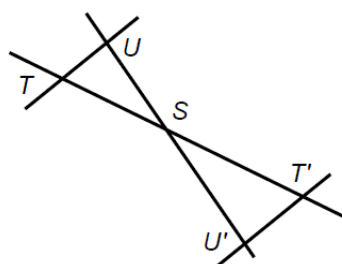
$TU \parallel T'U'$

$ST = 56 \text{ cm}$

$SU' = 60 \text{ cm}$

$ST' = 64 \text{ cm}$

Calculez  $SU$

**Exercice 8 :**

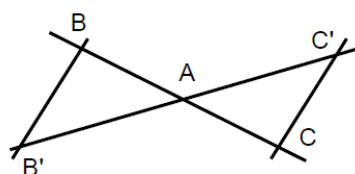
$BB' \parallel CC'$

$AB = 24 \text{ m}$

$AC = 28 \text{ m}$

$CC' = 21 \text{ m}$

Calculez  $BB'$

**Exercice 9 :**

$RR' \parallel SS' \parallel TT'$

$RS = 45 \text{ cm}$

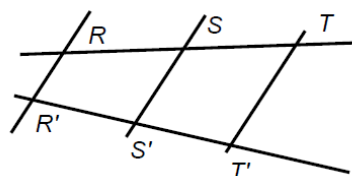
$ST = 50 \text{ cm}$

$RR' = 30 \text{ cm}$

$TT' = 50 \text{ cm}$

$R'T' = 90 \text{ cm}$

Calculez  $R'S'$  et  $SS'$

**Solutions :**

**Ex 1 :**  $\overline{AC'} = 65 \text{ cm}$  **Ex 2 :**  $\overline{MN'} = 42 \text{ mm}$  **Ex 3 :**  $\overline{S'T'} = 33 \text{ cm}$  **Ex 5 :**  $\overline{B'C'} = 45 \text{ mm}$   $\overline{CC'} = 49 \text{ mm}$

**Ex 4 :**  $\overline{RT} = 101, \overline{3} \text{ cm}$ . Si on sait que  $\overline{SS'} = 20 \text{ cm}$ , cela ne suffit pas pour calculer  $\overline{TT'}$ . Il faut aussi connaître  $\overline{RR'}$ .

**Ex 6 :**  $\overline{BB'} = 18 \text{ mm}$   $\overline{CC'} = 48 \text{ mm}$   $\overline{C'C''} = 18, \overline{6} \text{ mm}$   $\overline{AC''} = 66, \overline{6} \text{ mm}$   $\overline{B'C'} = 40 \text{ mm}$ ,  $\overline{B'B''} = 7 \text{ mm}$

**Ex 7 :**  $\overline{SU} = 52,5 \text{ cm}$  **Ex 8 :**  $\overline{BB'} = 18 \text{ m}$  **Ex 9 :**  $\overline{R'S'} \cong 42,632 \text{ cm}$   $\overline{SS'} \cong 39,473 \text{ cm}$

Plus d'exercices ? <http://www.gomaths.ch/divers.php> -> Grandeurs et mesures -> Théorème de Thalès