

Minute, papillon !

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Un opéra commence à six heures.
Trois heures plus tard, on regarde sa montre...
et il est déjà six heures vingt !
David Randolph

L'outil qui suit vise à faciliter l'apprentissage de la lecture de l'heure par les élèves. Il contient plusieurs éléments, qu'il ne sera pas forcément nécessaire de tous utiliser, en fonction des compétences de chacun.

Dans l'ensemble, il permet de traiter :

- ★ la lecture des heures "pile" ;
- ★ la différence heure du matin / heure du soir ;
- ★ la lecture des minutes par incrément de 5 ;
- ★ la lecture des minutes par incrément d'unité.

Un élément est simplement abordé sans être approfondi : la formulation de type « *moins vingt-cinq* » dans la seconde moitié des heures.

Ce fichier se compose :

- ☞ d'une horloge photocopiable recto-verso A4 ;
- ☞ de 2 horloges A5 (minutes par 5 et par 1) ;
- ☞ de 3 fiches autocorrectives d'entraînement ;
- ☞ d'une fiche personnalisable d'entraînement ou d'évaluation sommative.

Bien entendu, on peut utiliser les fiches de manière non-autocorrective (c'est même indispensable pour cibler au mieux les difficultés de certains élèves).

Pour la construction des horloges, le mieux est sans aucun doute de réaliser l'impression recto-verso sur du papier bristol (ou 160 g) et de plastifier l'ensemble ensuite. Avant de placer définitivement l'attache parisienne, vérifier que les aiguilles peuvent tourner librement (mais pas forcément l'attache dans le cadran).

En cas de plastification, on pourra utiliser le verso proposé pour les horloges A5 pour faire écrire au dos, avec un feutre effaçable à l'eau, les heures concernées. Cela permet de créer aisément des exercices interactifs (par l'échange d'horloges avec une heure à lire, par exemple, entre deux élèves co-apprenants).

La dernière fiche est destinée à pouvoir être personnalisée à loisir. À vos ciseaux !

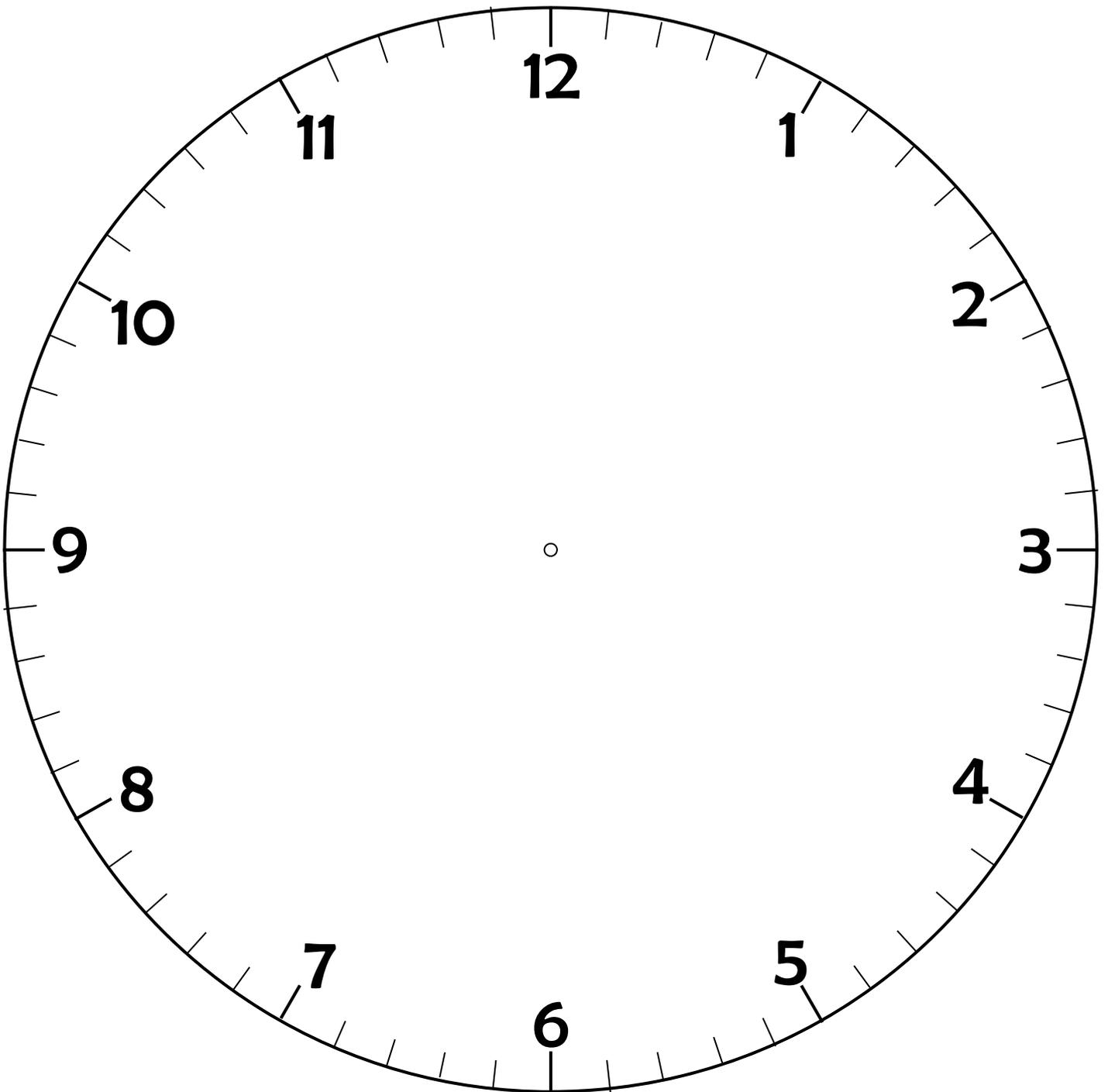
11 décembre 2006

Prénom :

Construire une horloge

MESURE

- ❶ Découpe avec soin le cadran ci-dessous et les deux aiguilles.
- ❷ Place un morceau de ruban adhésif au dos de chacune de ces trois pièces, à l'emplacement du futur trou, pour renforcer ton horloge.
- ❸ À l'aide d'un compas, perce un trou aux emplacements indiqués, puis place les aiguilles sur le cadran, à l'aide d'une attache parisienne. Assure-toi que les deux aiguilles peuvent tourner facilement autour de l'attache.



Comment lire l'heure ?

Les aiguilles

La **petite aiguille** est celle des **heures**. 1 heure = 60 minutes.

La **grande aiguille** est celle des **minutes**. 1 minute = 60 secondes.

On trouve parfois une autre grande aiguille, plus fine, celle des **secondes**.

Lire les heures

Regarde le nombre indiqué par la petite aiguille.

Si elle montre le 8 ou un peu après, c'est qu'il est 8 heures.

Si c'est l'après-midi, il faut ajouter 12 au nombre indiqué.

Si l'aiguille montre le 8, c'est qu'il est $8 + 12 = 20$ heures.

Lire les minutes

Les minutes sont symbolisées par les petits traits. Quand il n'y en a pas, on s'aide des nombres, qui aident à les compter de 5 en 5.

13 petits traits = 13 minutes

Le nombre 3 représente 15 minutes, le nombre 7 représente 35 minutes.

Lire les secondes

Regarde le nombre indiqué par la grande aiguille des secondes.

Les secondes se lisent comme pour l'aiguille des minutes.

Quelques habitudes de langage

Quand l'heure est passée de 15 minutes, on dit aussi « **et quart** ».

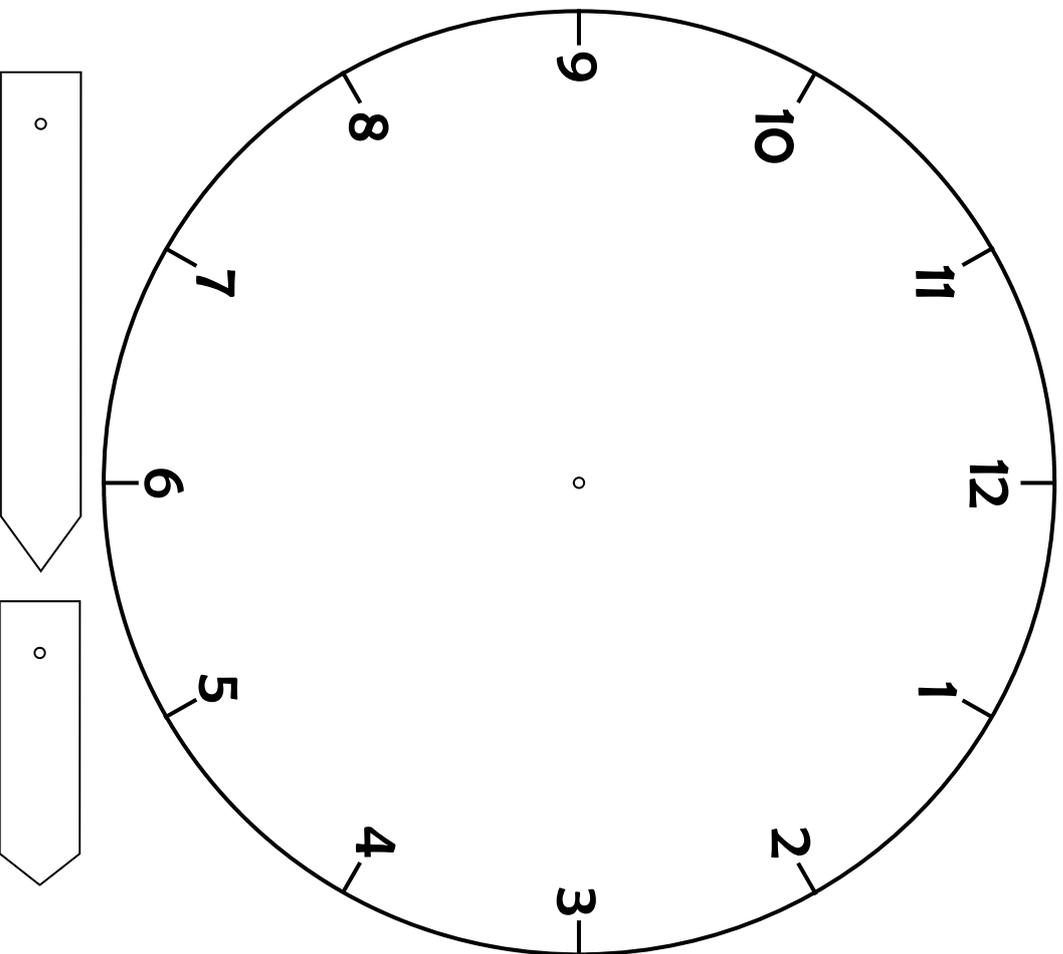
Quand l'heure est passée de 30 minutes, on dit aussi « **et demie** ».

Quand l'heure est passée de 45 minutes, on dit aussi

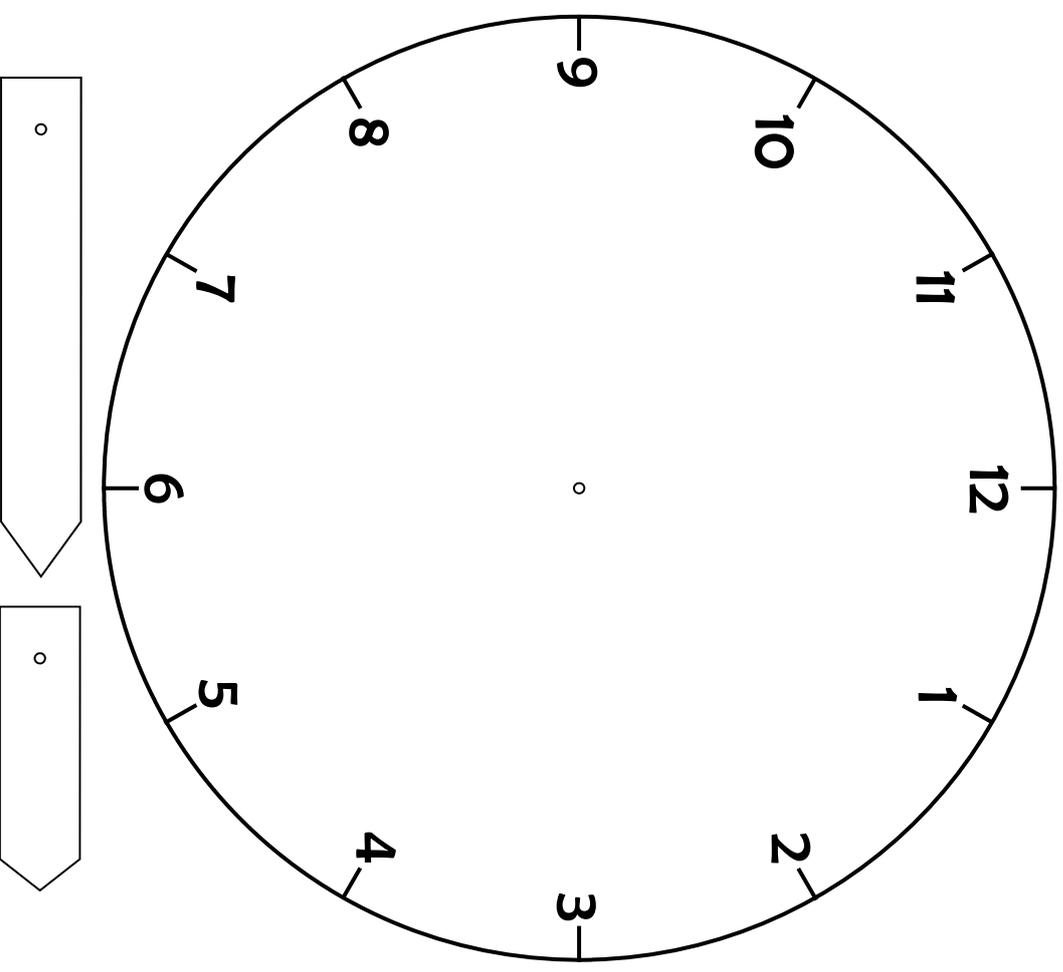
l'heure suivante « **moins le quart** ».

6h45 peut être prononcé « sept heures moins le quart »

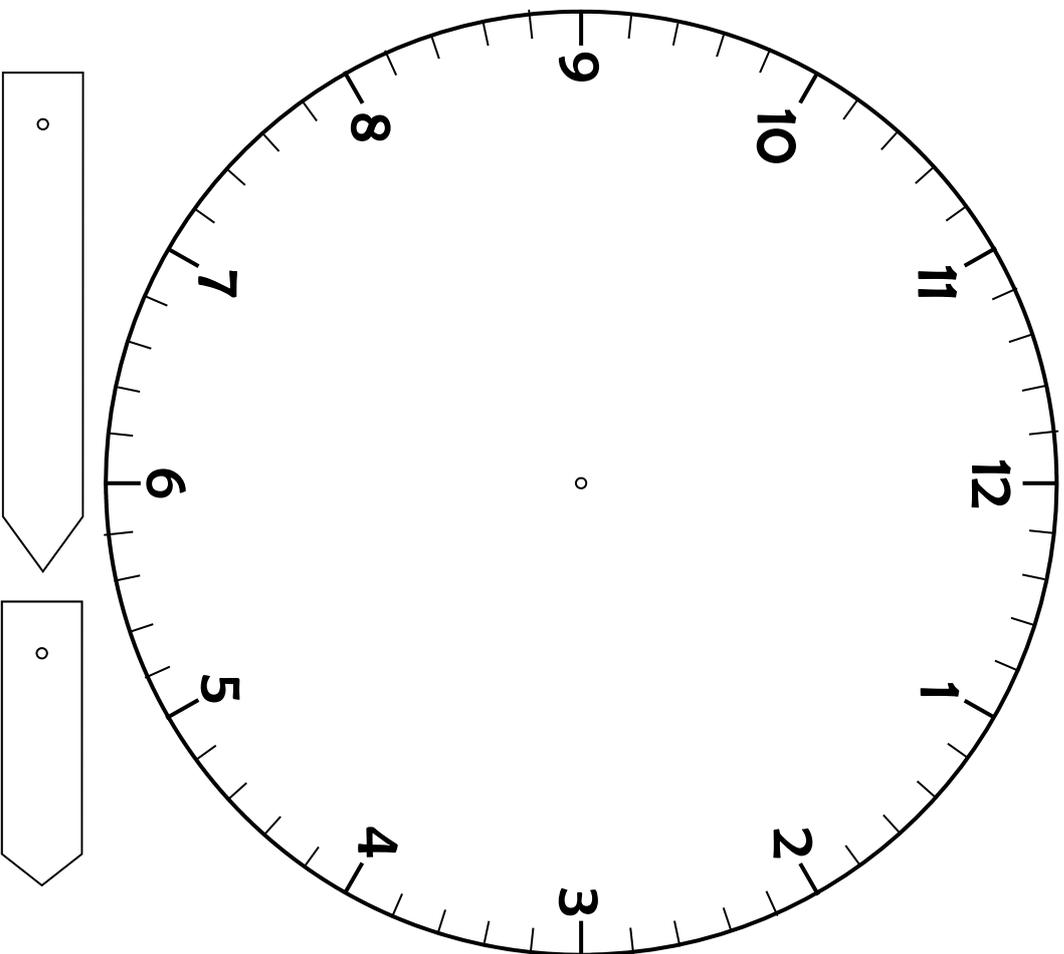
- 1 Découpe avec soin le cadran ci-dessous et les deux aiguilles.
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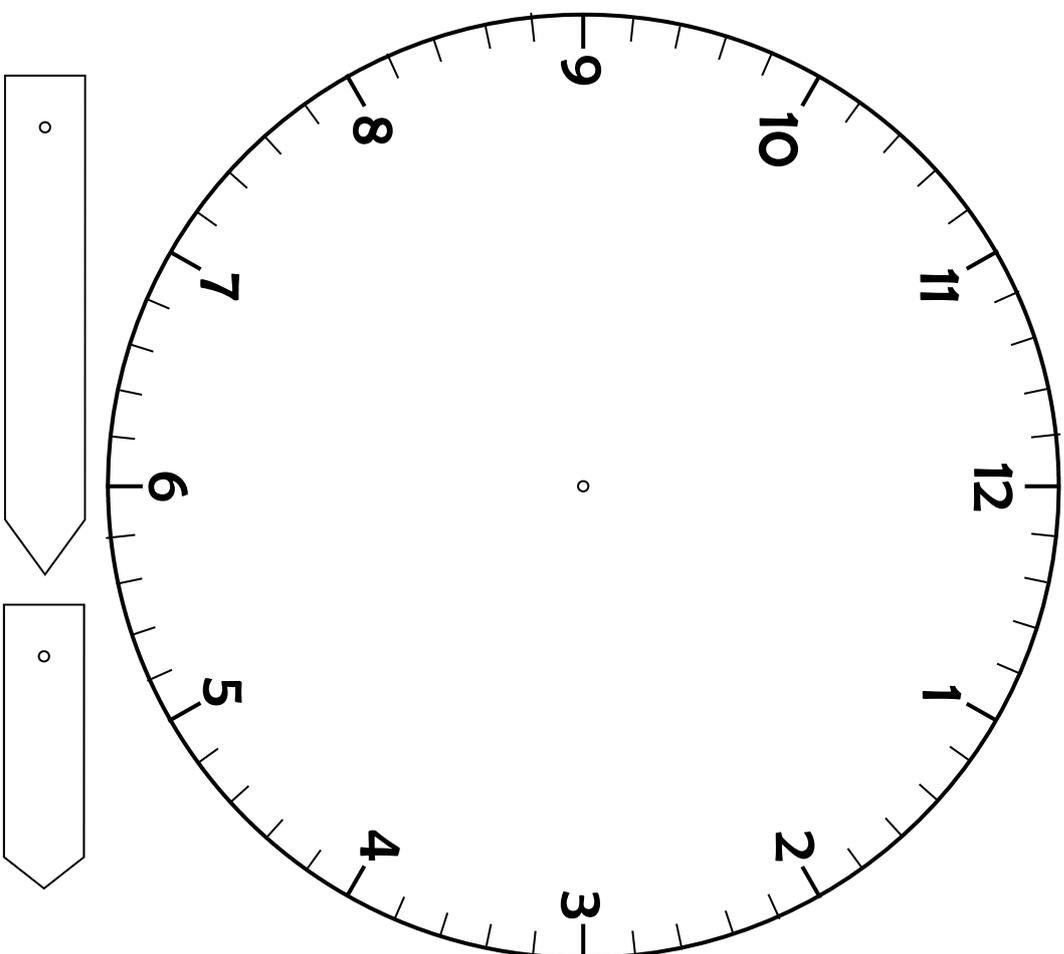
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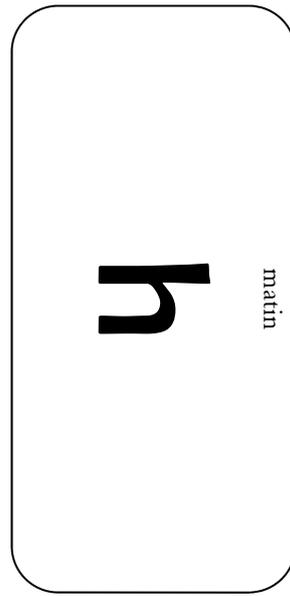
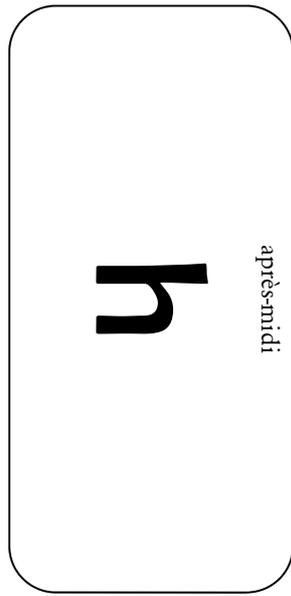
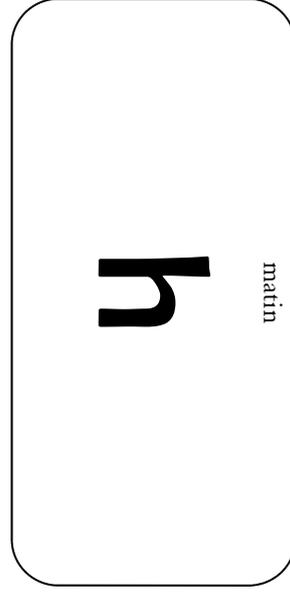
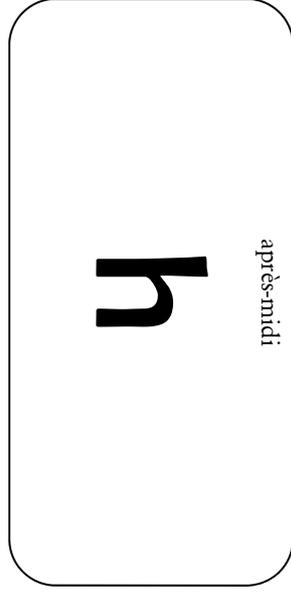


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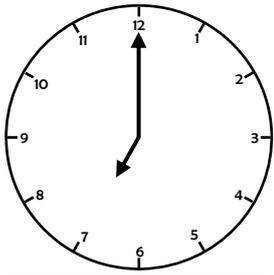


Prénom :

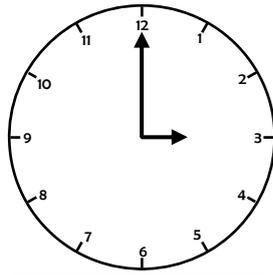
Lire l'heure ①

MESURE

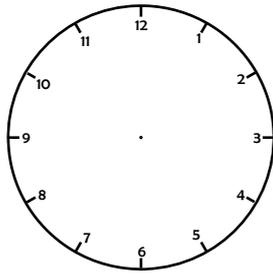
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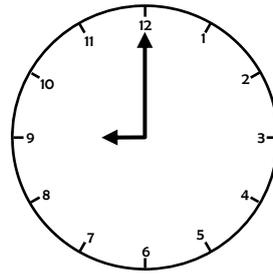
7 h 00



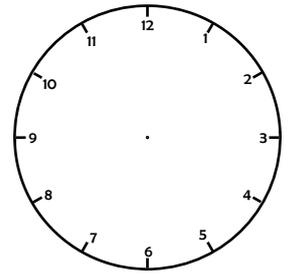
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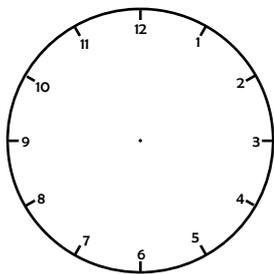
5 h 00



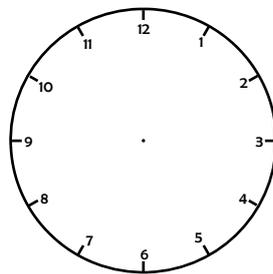
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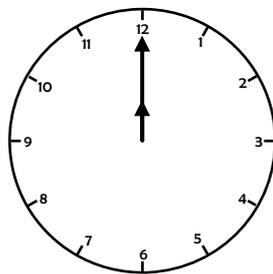
11 h 00



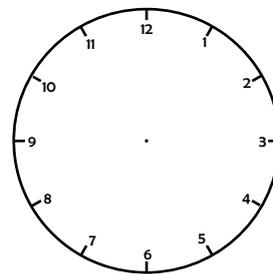
10 h 00



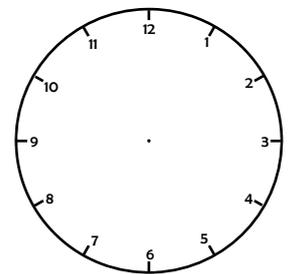
6 h 00



h

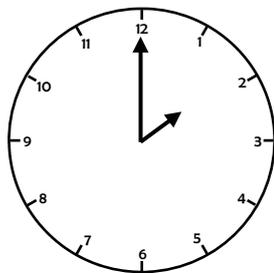


1 h 00



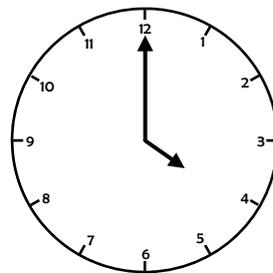
8 h 00

2. Complète les horloges ci-dessous en indiquant l'heure le matin et l'après-midi.



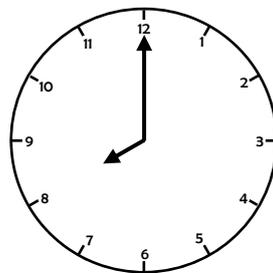
2 h 00

14 h 00



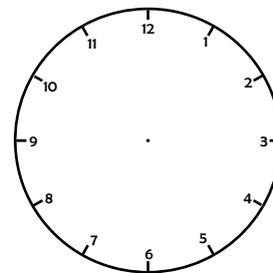
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16 h 00



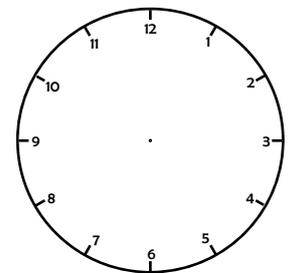
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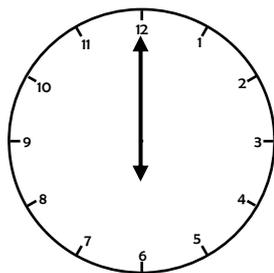
5 h 00

h



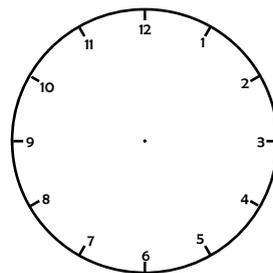
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22 h 00



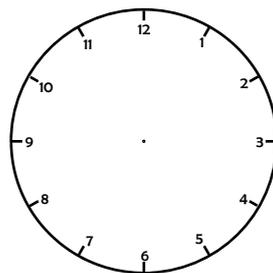
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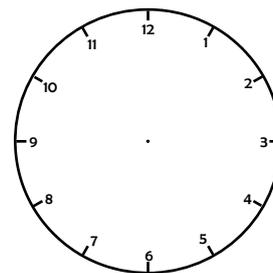
00 h 00

h



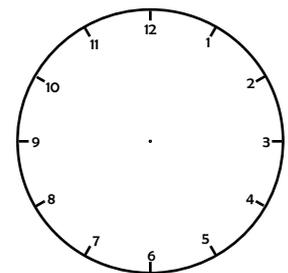
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23 h 00



1 h 00

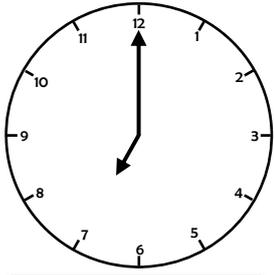
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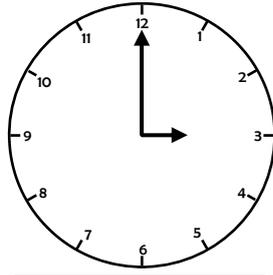
3 h 00

h

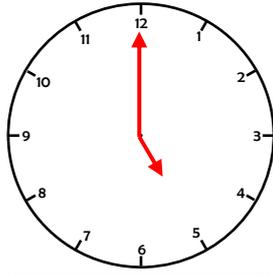
1. Complète les horloges ci-dessous.



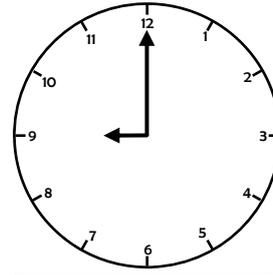
7 h 00



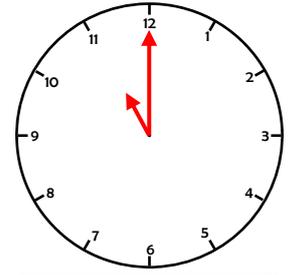
3 h 00



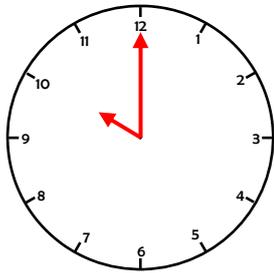
5 h 00



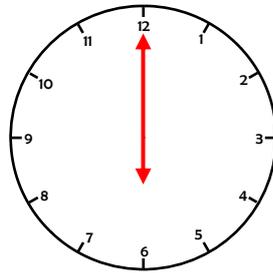
9 h 00



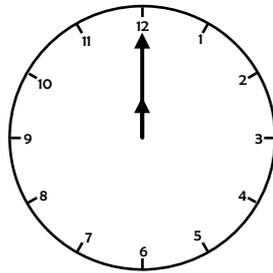
11 h 00



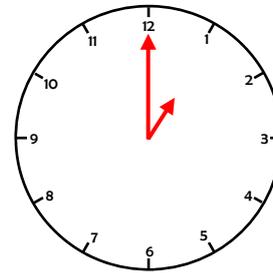
10 h 00



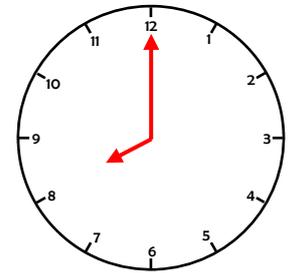
6 h 00



12 h 00



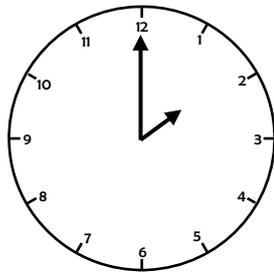
1 h 00



8 h 00

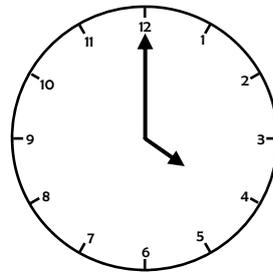
C'est également exact si tu as
marqué 0 h 00.

2. Complète les horloges ci-dessous en indiquant l'heure le matin et l'après-midi.



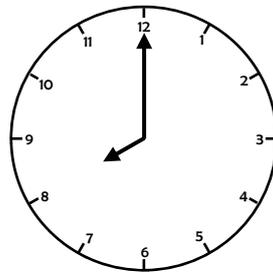
2 h 00

14 h 00



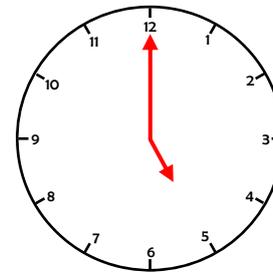
4 h 00

16 h 00



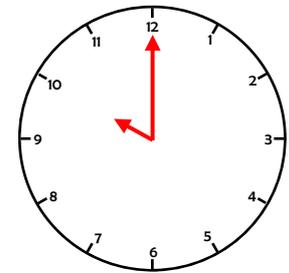
8 h 00

20 h 00



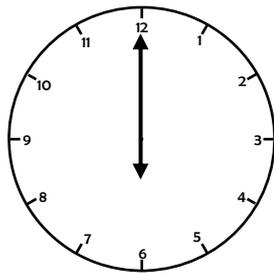
5 h 00

17 h 00



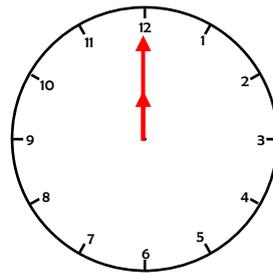
10 h 00

22 h 00



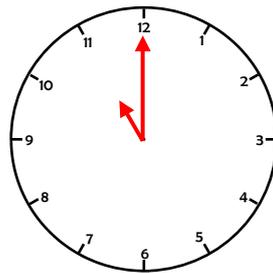
6 h 00

18 h 00



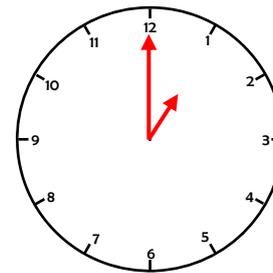
00 h 00

12 h 00



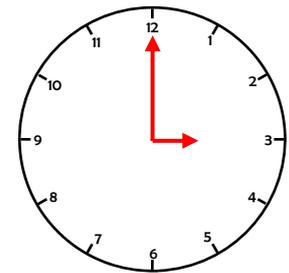
11 h 00

23 h 00



1 h 00

13 h 00



3 h 00

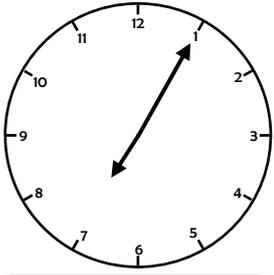
15 h 00

Prénom :

Lire l'heure ②

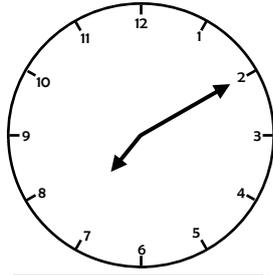
MESURE

Complète les horloges ci-dessous.



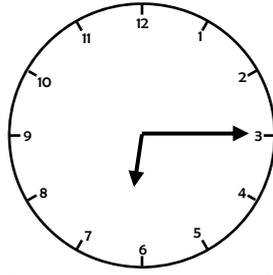
7 h 05

h



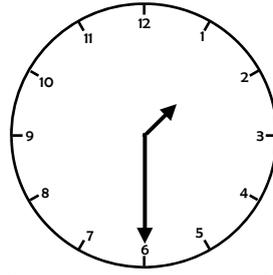
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19 h 10



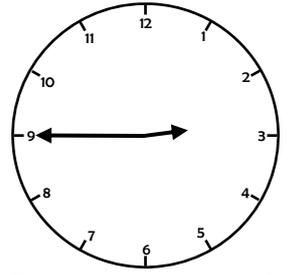
6 h 15

h



h

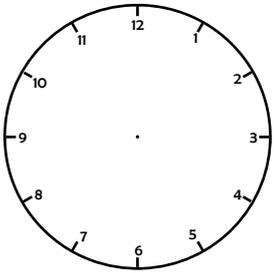
13 h 30



2 h 45

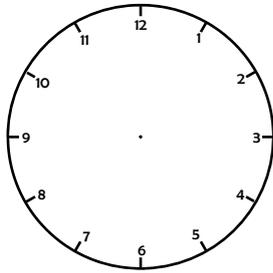
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Attention : l'aiguille des heures avance, elle aussi...



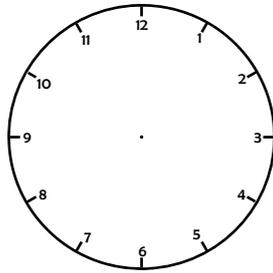
6 h 30

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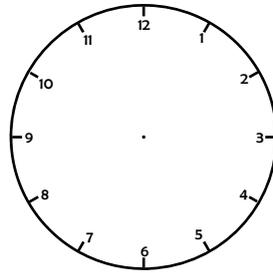
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20 h 30



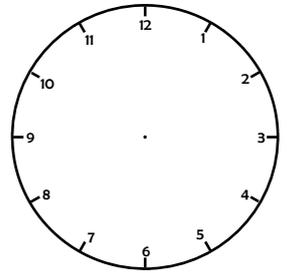
11 h 05

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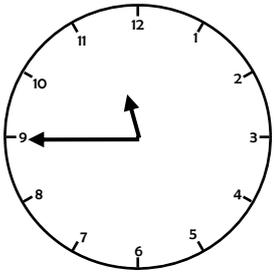
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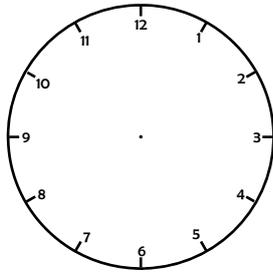
8 h 45

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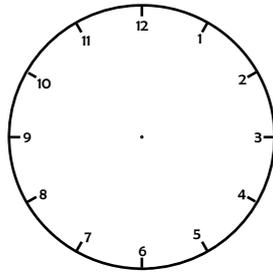
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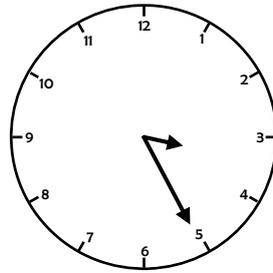
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13 h 10



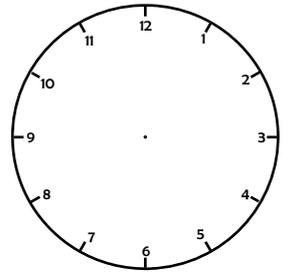
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16 h 20



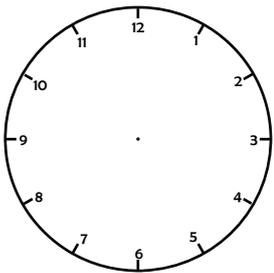
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h



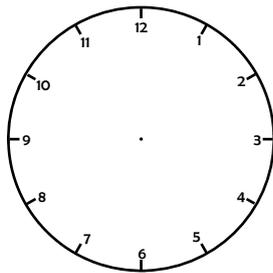
5 h 35

h



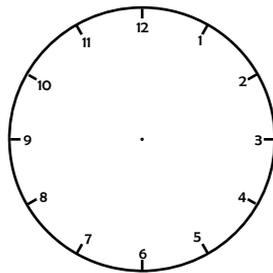
10 h 50

h



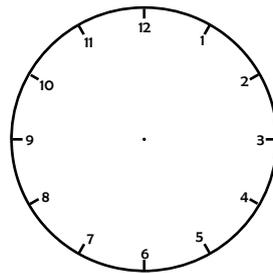
7 h 55

h



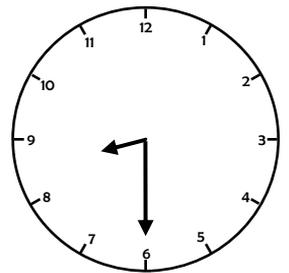
h

19 h 50



6 h 40

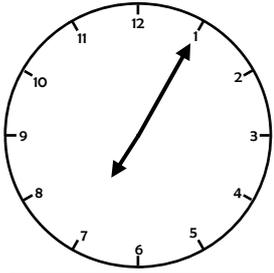
h



h

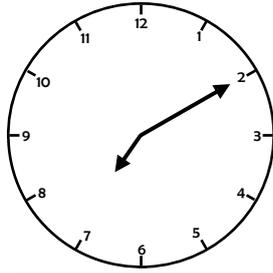
h

Complète les horloges ci-dessous.



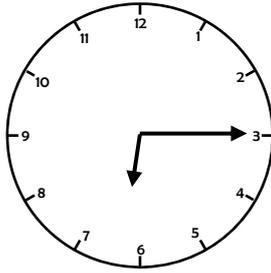
7 h 05

19 h 05



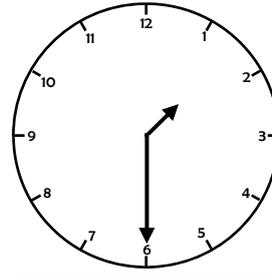
7 h 10

19 h 10



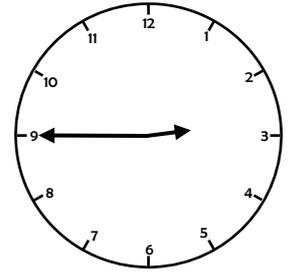
6 h 15

18 h 15



1 h 30

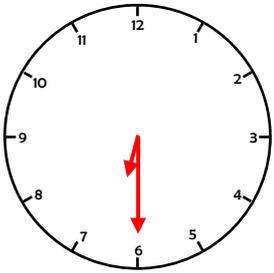
13 h 30



2 h 45

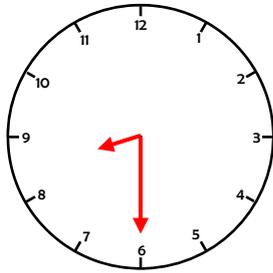
14 h 45

Attention : l'aiguille des heures avance, elle aussi...



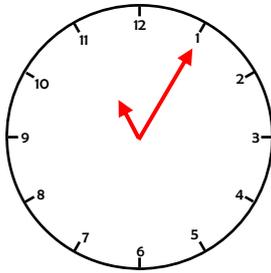
6 h 30

18 h 30



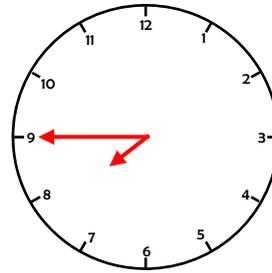
8 h 30

20 h 30



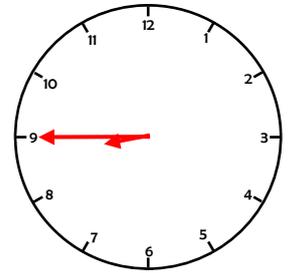
11 h 05

23 h 05



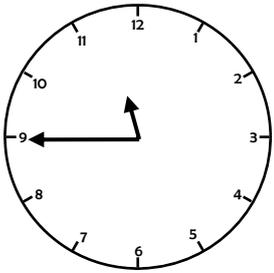
7 h 15

19 h 45



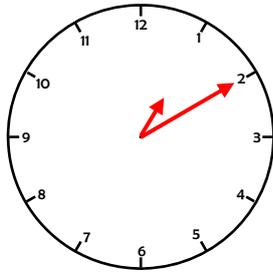
8 h 45

20 h 45



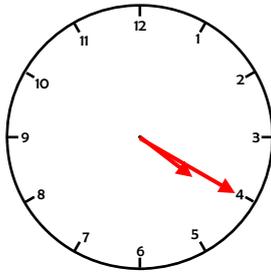
11 h 45

23 h 45



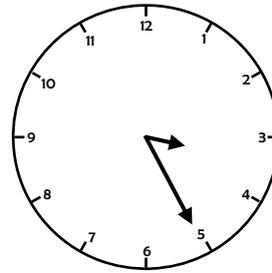
1 h 10

13 h 10



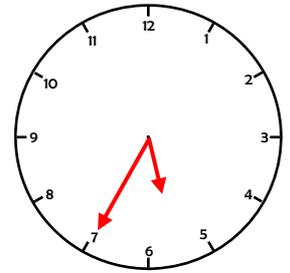
4 h 20

16 h 20



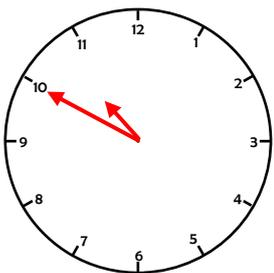
3 h 25

15 h 25



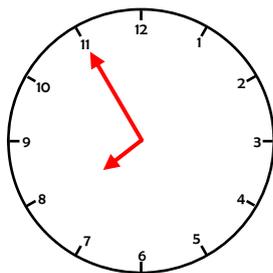
5 h 35

17 h 35



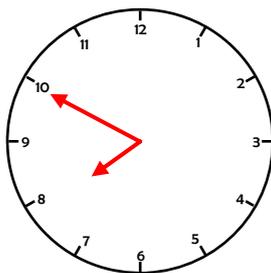
10 h 50

22 h 50



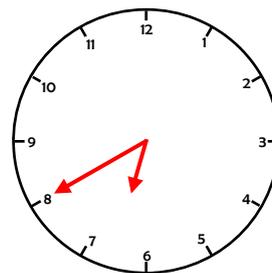
7 h 55

19 h 55



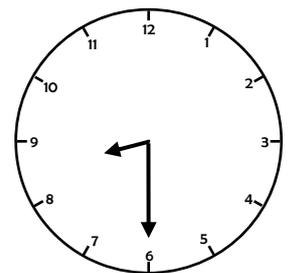
7 h 50

19 h 50



6 h 40

18 h 40



8 h 30

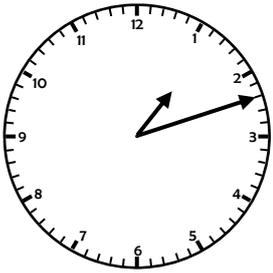
20 h 30

Prénom :

Lire l'heure ③

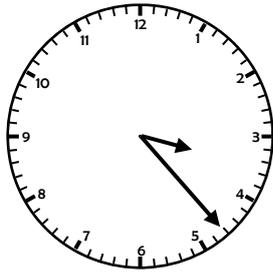
MESURE

Complète les horloges ci-dessous.



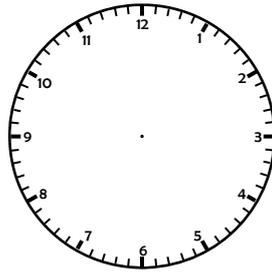
1 h 12

h



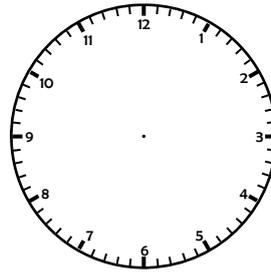
h

15 h 23



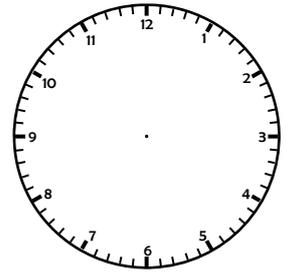
6 h 16

h



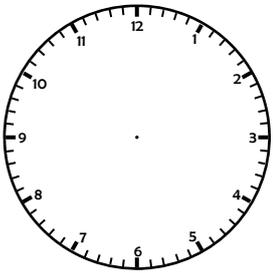
11 h 01

h



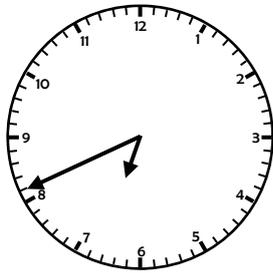
h

23 h 05



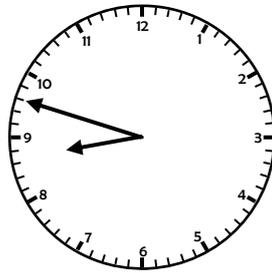
h

13 h 13



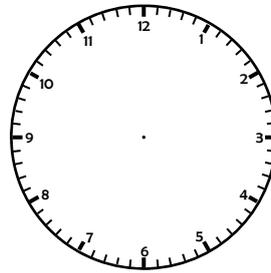
h

h



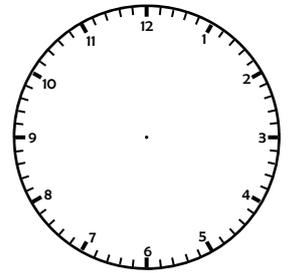
h

h



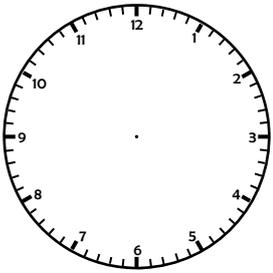
10 h 32

h



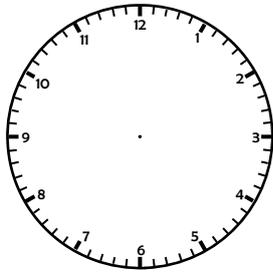
h

19 h 07



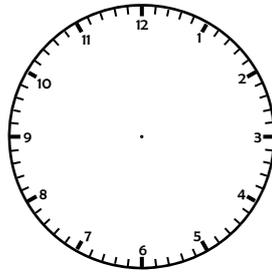
h

22 h 42



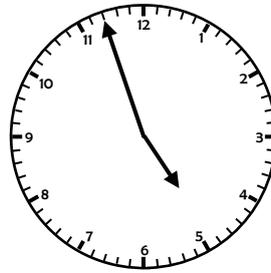
00 h 17

h



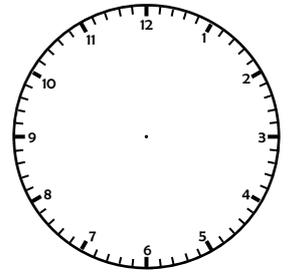
6 h 36

h



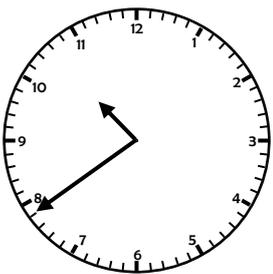
h

h



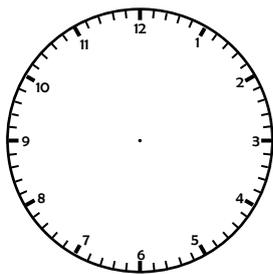
4 h 21

h



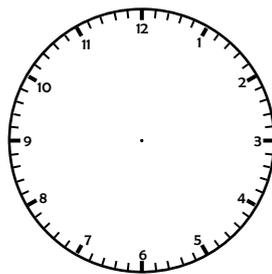
h

h



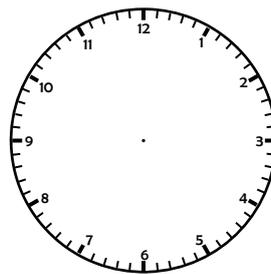
8 h 08

h



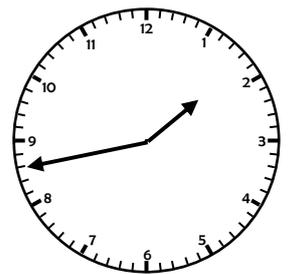
5 h 55

h



h

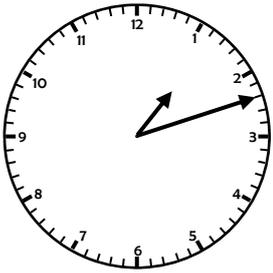
15 h 33



h

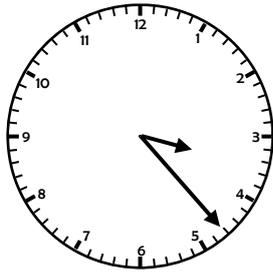
h

Complète les horloges ci-dessous.



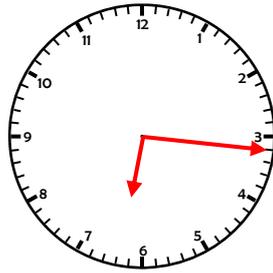
1 h 12

13 h 12



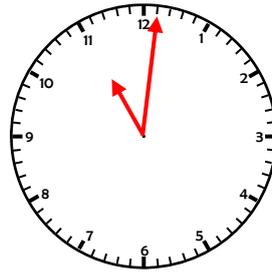
3 h 23

15 h 23



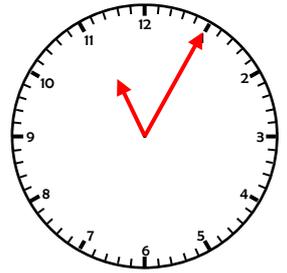
6 h 16

18 h 16



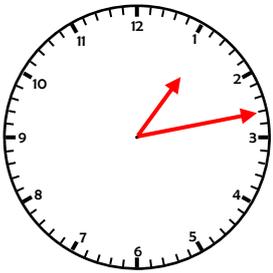
11 h 01

23 h 01



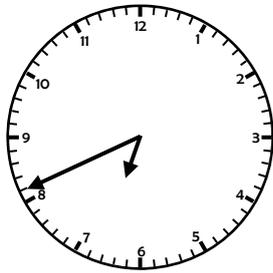
11 h 05

23 h 05



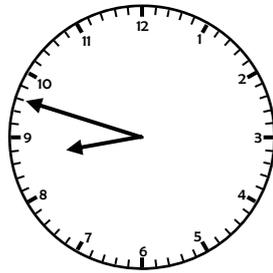
1 h 13

13 h 13



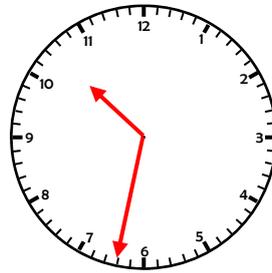
6 h 41

18 h 41



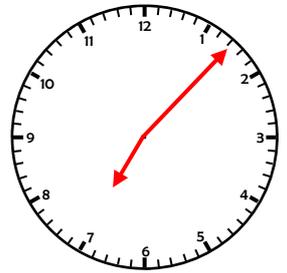
8 h 48

20 h 48



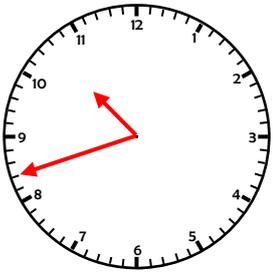
10 h 32

22 h 32



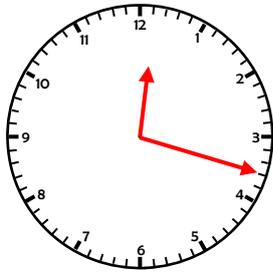
7 h 07

19 h 07



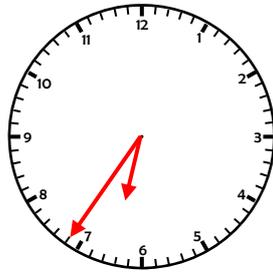
10 h 42

22 h 42



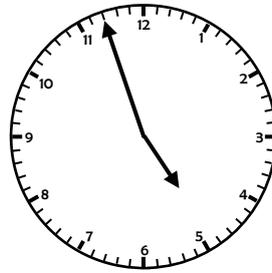
00 h 17

12 h 17



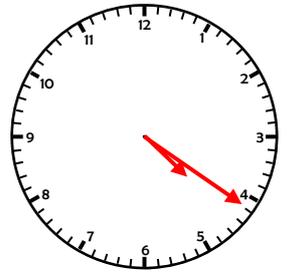
6 h 36

18 h 36



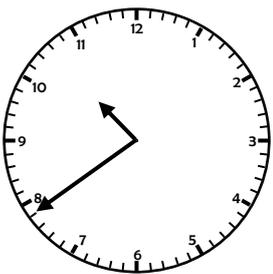
4 h 57

16 h 57



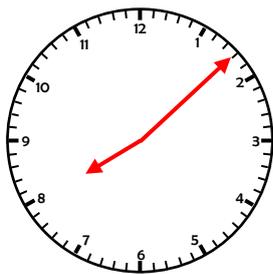
4 h 21

16 h 21



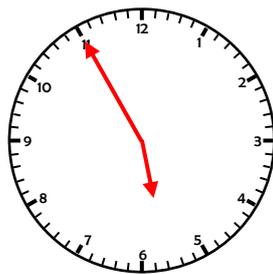
10 h 39

22 h 39



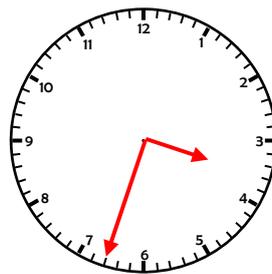
8 h 08

20 h 08



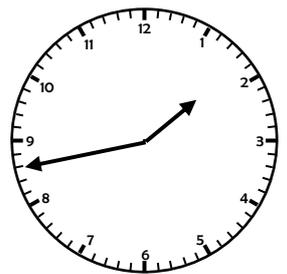
5 h 55

17 h 55



3 h 33

15 h 33



1 h 43

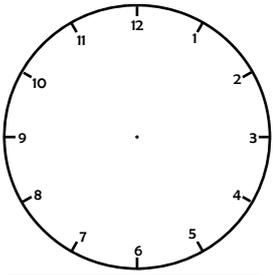
13 h 43

Prénom :

Lire l'heure

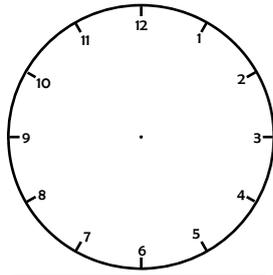
MESURE

Complète les horloges ci-dessous.



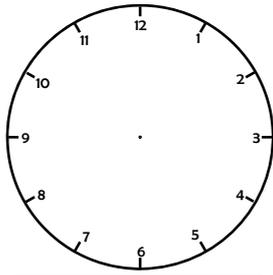
h

h



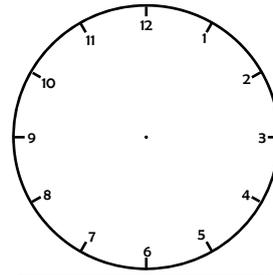
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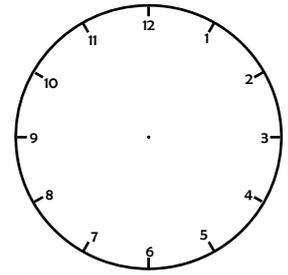
h

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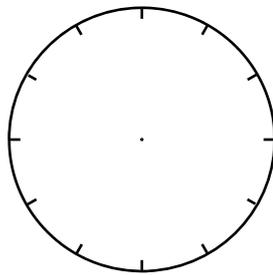
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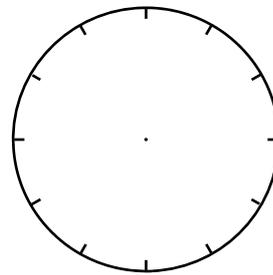
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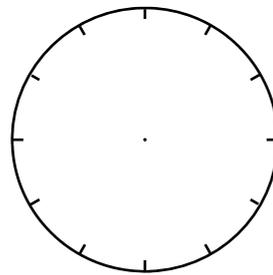
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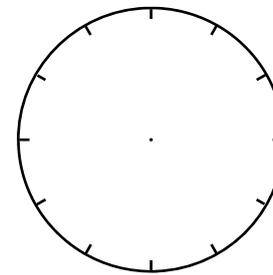
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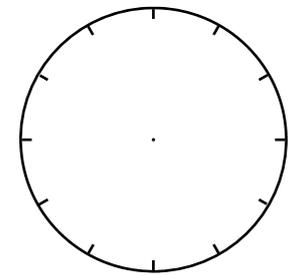
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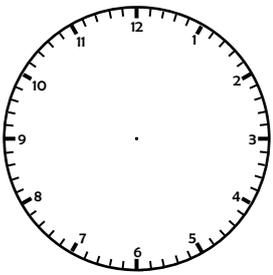
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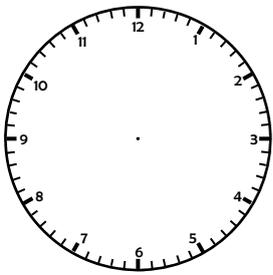
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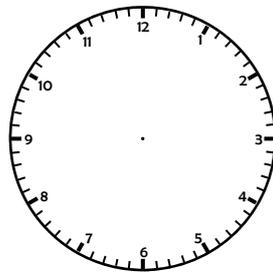
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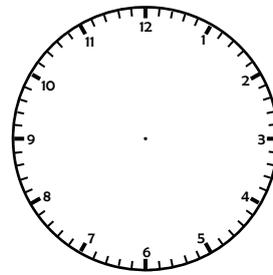
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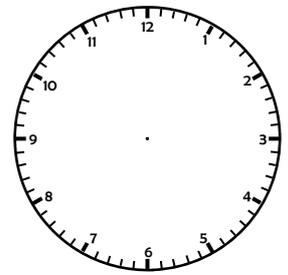
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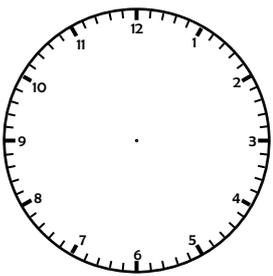
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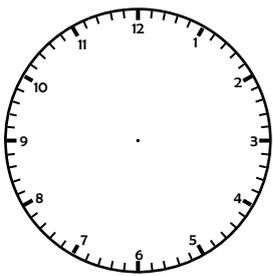
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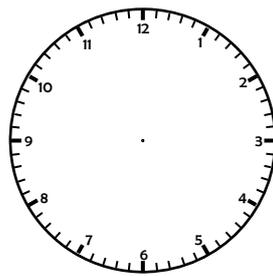
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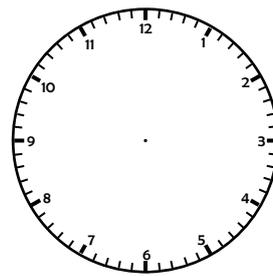
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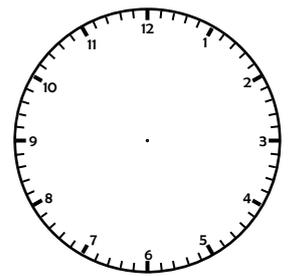
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