**Chapitre 5 : DES FRACTIONS A REPRESENTER**

# 1ère partie : Repérage sur une demi-droite graduée

**Exercice 1 : Sur l’énoncé**

Sur chaque demi-droite graduée, lire les abscisses des points sous la forme d’une fraction.

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**Exercice 2 : Sur l’énoncé**

Sur la demi-droite graduée ci-dessous, place les points :,  et .

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**Exercice 3 : Sur l’énoncé**

Sur la droite “ à graduer ” ci-dessous, place les nombres suivants : 1 ;  ;  ; .

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**Exercice 4 : Sur l’énoncé**

Trouve l’abscisse des points A, B, C, D, E :

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**Exercice 5 : Drôle de course**

Le professeur d’EPS organise une épreuve de vitesse entre six élèves. Il s’agit de courir en ligne droite pendant 3 minutes.

Le vainqueur sera l’élève qui aura parcouru la plus grande distance.

Chaque élève a un couloir réservé.

Chaque couloir est gradué avec la même unité. Les élèves ont pensé que cette graduation serait insuffisante et ont décidé de mettre en pratique la leçon de mathématiques. Voici les couloirs de chacun.

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| **C** |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  |
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Cloé est arrivée au point d’abscisse Ali est arrivé au point d’abscisse Dan est arrivé au point d’abscisse 

Farid est arrivée au point d’abscisse 3 + Elsa est arrivée au point d’abscisse Benoît est arrivé au point d’abscisse

**1.** Marque l’arrivée de chaque élève et établis le classement.

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**2.** Que d’incidents !

Elsa est passée devant un chien au point A.

Ali a fait une chute au point B.

Farid a perdu son dossard au point C.

Trouve l’abscisse de chacun de ces points : ………………………………………………………………………………………………………………………………

**3.** Dan a eu un point de côté au point d’abscisse . Trouve entre quels nombres entiers se situe cette abscisse. ……………………………………………………………………………………………………………………………………………………………………………………..

# 2ème partie : Encadrement d’une fraction par deux nombres entiers

**Exercice 6 : Sur l’énoncé**

Entoure de la même couleur les écritures qui désignent le même nombre.

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|  |  |  |  | 2 + |  | 1 + |  |
| 4 + | 1 + |  |  | 1 - | 2 + | 1 + | 1 + |

**Exercice 7 : Sur l’énoncé**

Dans la liste de fractions suivantes, entoure les nombres entiers.

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**Exercice 8 : Sur l’énoncé**

Trouve pour chaque tableau une fraction comprise entre les deux entiers consécutifs donnés :

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| 2 |  | 3 |  | 1 |  | 2 |  | 3 |  | 4 |  | 0 |  | 1 |  | 4 |  | 5 |
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| 2 |  | 3 |  | 4 |  | 5 |  | 51 |  | 52 |  | 6 |  | 7 |  | 5 |  | 6 |

**Exercice 9 : Sur l’énoncé**

Pour chaque fraction donnée, trouve les deux entiers consécutifs qui l’encadrent :

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**Exercice 10 : Sur l’énoncé**

Complète :

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| 3 +  = | 1 +  = | 5 +  = | 8 +  = | 6 +  = |

**Exercice 11: Sur l’énoncé**

Ecris les fractions sous la forme de la somme d’un entier et d’une fraction inférieure à 1 :

**a)**  **b)**  **c)** 

**d)**  **e)**  **f)** 

**3ème partie : Fractions égales**

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| **Exercice 12 : Sur l’énoncé**  Compléter :   |  |  | | --- | --- | |  |  | |  |  | | C:\Users\Dédé\Pictures\Transmath 6ème\Chapitre 5 - Nombres en écriture fractionnaire\32.PNG | C:\Users\Dédé\Pictures\Transmath 6ème\Chapitre 5 - Nombres en écriture fractionnaire\32.PNG | | C:\Users\Dédé\Pictures\Transmath 6ème\Chapitre 5 - Nombres en écriture fractionnaire\32.PNG | C:\Users\Dédé\Pictures\Transmath 6ème\Chapitre 5 - Nombres en écriture fractionnaire\32.PNG | | **Exercice 13 : Sur l’énoncé**  Relier les fractions égales.  C:\Users\Dédé\Pictures\Transmath 6ème\Chapitre 5 - Nombres en écriture fractionnaire\33.PNG |
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**Exercice 14 : Sur l’énoncé**

Simplifier le plus possible chaque fraction en détaillant les calculs :

**a)**  **b)** 

**c)**  **d)** 

**Exercice 15 :**

Compléter : **a)**  **b)**  **c)**  **d)** 

**4ème partie : Exercices plus complexes**

**Exercice 16 : Sur ta copie double**

**1.** Aurélie dit que la moitié d’un tiers, c’est . Gilbert dit que la moitié d’un tiers, c’est . Qui a raison ?

**2.** Michel dit que le quart d’un quart, c’est . Brigitte dit que le quart d’un quart c’est . Qui a raison ?

**3.** Que vaut un cinquième d’un cinquième ?

**4.** Que vaut un dixième d’un dixième ?

**Exercice 17 : Sur ta copie double**

On souhaite tracer une demi-droite graduée pour y placer les points suivants :



**a)** Combien de carreaux est-il préférable de prendre pour représenter l’unité ?

**b)** Faire une telle demi-droite graduée et y placer les points.

**Exercice 18 :**

Sur ces trois droites, certaines graduations ont été effacées, écris l’abscisse de chacun des points A et B.

