


## Questions flash :

- 1-2 minutes par question
- écrire les réponses dans le cahier d'exercices
- vous pouvez utiliser du papier brouillon et la calculatrice.

## Question 1

*Compléter le tableau suivant :*

	$-2 \leq x \leq 3$	
		
$[0; +\infty[$		

Question 2

*Résoudre l'inéquation suivante :*

$$3x - 12 \leq 7x + 8$$

### Question 3

*Simplifier les expressions suivantes :*

$$2|4 - 10| + |8 - 1|$$

$$|5 - \pi| + |3 - \pi|$$



## Correction 1

$$-2 \leq x \leq 3$$





$$[0; +\infty[$$

## Correction 1

$[-2; 3]$	$-2 \leq x \leq 3$	
		
$[0; +\infty[$		

## Correction 1

$[-2; 3]$	$-2 \leq x \leq 3$	 A horizontal black number line with red brackets above it. The left bracket is at -2 and the right bracket is at 3. The numbers -2 and 3 are written in red below the line.
$[1; 4[$	$1 \leq x < 4$	 A horizontal black number line with brackets above it. The left bracket is at 1 and is red. The right bracket is at 4 and is black. The numbers 1 and 4 are written below the line.
$[0; +\infty[$		

## Correction 1

$[-2; 3]$	$-2 \leq x \leq 3$	A horizontal black number line with red brackets starting at -2 and ending at 3. The number -2 is written in red below the line, and the number 3 is written in red below the line.
$[1; 4[$	$1 \leq x < 4$	A horizontal black number line with a red bracket starting at 1 and a black bracket ending at 4. The number 1 is written in red below the line, and the number 4 is written in black below the line.
$[0; +\infty[$	$0 \leq x$	A horizontal black number line with a red bracket starting at 0 and extending to the right. The number 0 is written in red below the line.



## Correction 2

*On a les équivalences :*

$$3x - 12 \leq 7x + 8$$

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$$3x - 12 \leq 7x + 8 \Leftrightarrow -12 \leq 4x + 8$$

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$$3x - 12 \leq 7x + 8 \Leftrightarrow -12 \leq 4x + 8$$

$$\Leftrightarrow -20 \leq 4x$$

## Correction 2

*On a les équivalences :*

$$3x - 12 \leq 7x + 8 \Leftrightarrow -12 \leq 4x + 8$$

$$\Leftrightarrow -20 \leq 4x \Leftrightarrow -5 \leq x$$

*donc l'ensemble solution est :  $[-5; +\infty[$ .*

### Correction 3

$$2|4 - 10| + |8 - 1| =$$

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$$2|4 - 10| + |8 - 1| = 2|-6| + |7| =$$

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$$2|4 - 10| + |8 - 1| = 2|-6| + |7| = 2 \times 6 + 7 = 19$$

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$$2|4 - 10| + |8 - 1| = 2|-6| + |7| = 2 \times 6 + 7 = 19$$

$$|5 - \pi| + |3 - \pi| =$$



### Correction 3

$$2|4 - 10| + |8 - 1| = 2|-6| + |7| = 2 \times 6 + 7 = 19$$

$$\begin{aligned} |5 - \pi| + |3 - \pi| &= (5 - \pi) + (\pi - 3) \\ &= 5 - \pi + \pi - 3 = 2 \end{aligned}$$