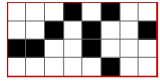


## PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 1

1) Développer  $3(7k - 5)$



$21k + 15 \Rightarrow C$

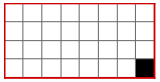
$21k - 5 \Rightarrow F$

$21k + 5 \Rightarrow E$

$21k - 15 \Rightarrow H$

Autre réponse  $\Rightarrow D$

2) Développer  $(5j + 6)(2j + 4)$



$10j^2 + 32j + 24 \Rightarrow A$

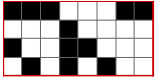
$42j + 24 \Rightarrow I$

$42j - 24 \Rightarrow G$

$10j^2 - 32j + 24 \Rightarrow B$

Autre réponse  $\Rightarrow J$

3) Calculer  $5h^2 + 2h - 7$  pour  $h = -3$



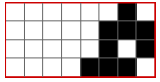
$-58 \Rightarrow D$

$-32 \Rightarrow F$

$58 \Rightarrow B$

$32 \Rightarrow J$  Autre réponse  $\Rightarrow H$

4) Factoriser  $49k - 14$



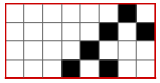
$7k(7 - 2) \Rightarrow C$

$7(7k + 2) \Rightarrow A$

$7(7k - 14) \Rightarrow G$

Autre réponse  $\Rightarrow E$

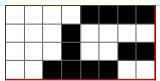
5) Développer  $(3m + 5)^2$



$3m^2 + 25 \Rightarrow I$   $9m^2 + 15m + 25 \Rightarrow A$

$9m^2 + 25 \Rightarrow F$  Autre réponse  $\Rightarrow B$

6) Développer  $(8t - 2)(3t - 5)$



$24t^2 - 46t + 10 \Rightarrow G$   $24t^2 - 46t - 10 \Rightarrow I$

$24t^2 - 34t - 10 \Rightarrow D$  Autre réponse  $\Rightarrow C$

7) Factoriser  $9k^2 - 64$



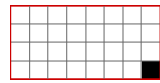
$(3k - 8)^2 \Rightarrow E$

$(3k - 8)(3k + 8) \Rightarrow I$

$(9k - 8)^2 \Rightarrow J$

Autre réponse  $\Rightarrow H$

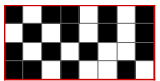
8) Développer  $(4g - 10)^2$



$16g^2 - 100 \Rightarrow E$   $16g^2 - 80g + 100 \Rightarrow C$

$16g^2 - 40g + 100 \Rightarrow H$  Autre  $\Rightarrow J$

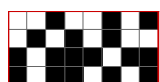
9)  $-4(7g^2 - 2) + (2g - 3)(4g + 6)$  est égal à



$-2(10g^2 + 5) \Rightarrow F$   $14g^2 + 24g - 10 \Rightarrow D$

$-28g^2 + 32g + 12 \Rightarrow G$  Autre  $\Rightarrow A$

10) Factoriser  $(4b - 9)(7b - 4) - (5b + 7)(4b - 9)$



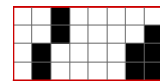
$(4b - 9)(12b + 3) \Rightarrow C$  Impossible  $\Rightarrow B$

$(4b - 9)(2b - 11) \Rightarrow D$  Autre  $\Rightarrow F$

|   |   |
|---|---|
|   | A |
|   | B |
| C | D |
| E | F |
| G | H |
| I | J |

## PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 2

1) Développer  $5(7k - 3)$



$35k - 15 \Rightarrow E$

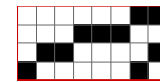
$35k - 3 \Rightarrow A$

$35k + 5 \Rightarrow B$

$35k + 3 \Rightarrow D$

Autre réponse  $\Rightarrow G$

2) Développer  $(5j + 6)(2j + 4)$



$10j^2 - 32j + 24 \Rightarrow G$

$42j - 24 \Rightarrow I$

$42j + 24 \Rightarrow C$

$10j^2 + 32j + 24 \Rightarrow B$

Autre réponse  $\Rightarrow F$

3) Calculer  $3h^2 + 2h - 7$  pour  $h = -5$



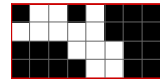
$-58 \Rightarrow C$

$-92 \Rightarrow B$

$58 \Rightarrow I$

$92 \Rightarrow A$  Autre réponse  $\Rightarrow F$

4) Factoriser  $25k - 45$



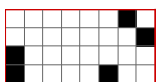
$5k(5 - 45) \Rightarrow B$

$5(5k + 45) \Rightarrow E$

$5(5k - 9) \Rightarrow G$

Autre réponse  $\Rightarrow D$

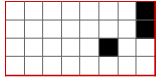
5) Développer  $(4m + 3)^2$



$16m^2 + 9 \Rightarrow G$   $16m^2 + 12m + 9 \Rightarrow I$

$4m^2 + 9 \Rightarrow E$  Autre réponse  $\Rightarrow D$

6) Développer  $(8t - 2)(3t - 5)$



$24t^2 - 46t + 10 \Rightarrow H$   $24t^2 - 46t - 10 \Rightarrow C$

$24t^2 - 34t - 10 \Rightarrow B$  Autre réponse  $\Rightarrow A$

7) Factoriser  $4k^2 - 36$



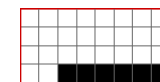
$(2k - 6)^2 \Rightarrow D$

$(4k - 6)(4k + 6) \Rightarrow G$

$(4k - 6)^2 \Rightarrow I$

Autre réponse  $\Rightarrow F$

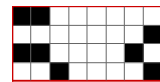
8) Développer  $(10g - 9)^2$



$100g^2 - 81 \Rightarrow C$   $100g^2 - 90g + 81 \Rightarrow I$

$100g^2 - 180g + 81 \Rightarrow A$  Autre  $\Rightarrow B$

9)  $-4(7g^2 - 2) + (2g - 3)(4g + 6)$  est égal à



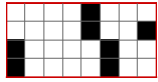
$-2(10g^2 + 5) \Rightarrow C$   $14g^2 + 24g - 10 \Rightarrow G$

$-28g^2 + 32g + 12 \Rightarrow A$  Autre  $\Rightarrow E$

|   |   |
|---|---|
|   | A |
| B | C |
| D | E |
| F | G |
| H | I |

### PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 3

1) Développer  $4(5k - 3)$



$20k + 3 \Rightarrow B$

$20k - 12 \Rightarrow C$

$20k + 12 \Rightarrow F$

$20k - 3 \Rightarrow H$

Autre réponse  $\Rightarrow I$

|   |   |   |
|---|---|---|
| A |   |   |
| B | E |   |
| C | F | H |
| D | G | I |

2) Développer  $(3j + 4)(5j + 7)$



$15j^2 - 41j + 28 \Rightarrow G$

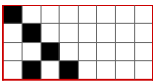
$56j - 28 \Rightarrow A$

$56j + 28 \Rightarrow D$

$15j^2 + 41j + 28 \Rightarrow E$

Autre réponse  $\Rightarrow H$

3) Calculer  $7h^2 + 5h - 4$  pour  $h = -2$



$-14 \Rightarrow I$

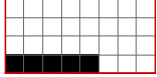
$-22 \Rightarrow C$

$14 \Rightarrow H$

$22 \Rightarrow B$

Autre réponse  $\Rightarrow F$

4) Factoriser  $49k - 14$



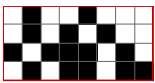
$7(7k - 2) \Rightarrow A$

$7k(7 - 2) \Rightarrow D$

$7(7k - 14) \Rightarrow C$

Autre réponse  $\Rightarrow G$

5) Développer  $(3m + 5)^2$



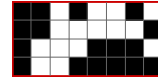
$3m^2 + 25 \Rightarrow H$

$9m^2 + 30m + 25 \Rightarrow I$

$9m^2 + 25 \Rightarrow A$

Autre réponse  $\Rightarrow F$

8) Développer  $(4g - 10)^2$



$16g^2 - 100 \Rightarrow B$

$16g^2 + 80g + 100 \Rightarrow F$

$16g^2 - 40g + 100 \Rightarrow C$

Autre  $\Rightarrow D$

6) Développer  $(2t - 5)(9t - 6)$



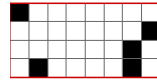
$18t^2 - 32t + 30 \Rightarrow C$

$18t^2 - 57t - 30 \Rightarrow I$

$18t^2 - 32t - 30 \Rightarrow D$

Autre réponse  $\Rightarrow G$

9)  $-5(8g^2 - 4) + (3g + 4)(6g - 8)$  est égal à



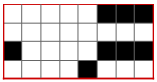
$-38g^2 - 42 \Rightarrow A$

$-2(11g^2 + 6) \Rightarrow F$

$-22g^2 + 32g - 12 \Rightarrow D$

Autre  $\Rightarrow G$

7) Factoriser  $9k^2 - 36$



$(3k - 6)^2 \Rightarrow I$

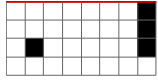
$(3k - 6)(3k + 6) \Rightarrow B$

$(9k - 6)^2 \Rightarrow A$

Autre réponse  $\Rightarrow F$

### PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 4

1) Développer  $4(9k - 5)$



$36k + 20 \Rightarrow J$

$36k - 5 \Rightarrow A$

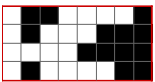
$36k - 20 \Rightarrow B$

$36k + 5 \Rightarrow G$

Autre réponse  $\Rightarrow F$

|   |   |   |   |
|---|---|---|---|
| A | B | C | D |
| E | F | G | H |
|   |   | I | J |

2) Développer  $(7j + 3)(5j + 2)$



$35j^2 - 29j + 6 \Rightarrow H$

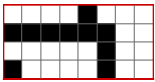
$64j + 6 \Rightarrow D$

$64j - 6 \Rightarrow C$

$35j^2 + 1j + 6 \Rightarrow I$

Autre réponse  $\Rightarrow E$

3) Calculer  $7h^2 + 10h - 3$  pour  $h = -2$



$-5 \Rightarrow B$

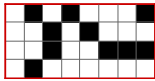
$35 \Rightarrow H$

$5 \Rightarrow J$

$-35 \Rightarrow D$

Autre réponse  $\Rightarrow G$

4) Factoriser  $44k - 77$



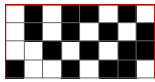
$4k(11k - 7) \Rightarrow H$

$4(11k - 77) \Rightarrow C$

$4k(11 - 7) \Rightarrow E$

Autre réponse  $\Rightarrow G$

5) Développer  $(5m + 4)^2$



$25m^2 + 16 \Rightarrow F$

$25m^2 + 20m + 16 \Rightarrow J$

$5m^2 + 16 \Rightarrow A$

Autre réponse  $\Rightarrow C$

8) Développer  $(7g - 10)^2$



$49g^2 - 100 \Rightarrow C$

$49g^2 - 140g + 100 \Rightarrow A$

$49g^2 - 70g + 100 \Rightarrow H$

Autre  $\Rightarrow J$

6) Développer  $(3t - 4)(7t - 2)$



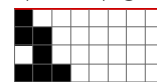
$21t^2 - 34t + 8 \Rightarrow H$

$21t^2 - 22t - 8 \Rightarrow B$

$21t^2 - 34t - 8 \Rightarrow F$

Autre réponse  $\Rightarrow G$

9)  $-6(4g^2 - 5) + (3g + 4)(6g - 8)$  est égal à



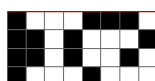
$-2(3g^2 + 1) \Rightarrow D$

$6g^2 + 48g - 2 \Rightarrow F$

$-6g^2 - 48g - 2 \Rightarrow A$

Autre  $\Rightarrow I$

7) Factoriser  $4k^2 - 81$



$(4k - 9)^2 \Rightarrow D$

$(2k - 9)(2k + 9) \Rightarrow F$

$(2k - 9)^2 \Rightarrow B$

Autre réponse  $\Rightarrow I$

10) Factoriser  $(7b - 3)(8b - 6) - (4b + 2)(7b - 3)$



$(7b - 3)(12b - 4) \Rightarrow E$

Impossible  $\Rightarrow D$

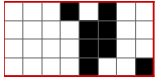
$(7b - 3)(4b - 8) \Rightarrow I$

Autre  $\Rightarrow A$

**PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 5**

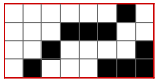
|   |   |
|---|---|
| A | F |
| B | G |
| C | H |
| D | I |
| E | J |

1) Développer  $9(2k - 4)$



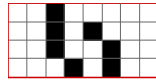
$18k - 4 \Rightarrow A$      $18k + 36 \Rightarrow E$   
 $18k + 4 \Rightarrow F$      $18k - 36 \Rightarrow C$     Autre réponse  $\Rightarrow H$

2) Développer  $(4j + 5)(7j + 2)$



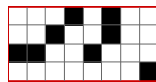
$51j - 10 \Rightarrow J$      $28j^2 + 27j + 10 \Rightarrow D$   
 $28j^2 + 43j + 10 \Rightarrow G$      $51j + 10 \Rightarrow B$     Autre réponse  $\Rightarrow I$

3) Calculer  $6h^2 + 5h + 11$  pour  $h = -3$



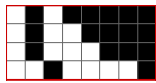
$80 \Rightarrow C$      $-58 \Rightarrow F$      $-80 \Rightarrow A$      $58 \Rightarrow J$     Autre réponse  $\Rightarrow B$

4) Factoriser  $77k - 33$



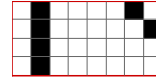
$11(7k - 33) \Rightarrow C$      $11(7k - 3) \Rightarrow F$      $11(7k + 33) \Rightarrow G$     Autre réponse  $\Rightarrow E$

5) Développer  $(2m + 7)^2$



$4m^2 + 49 \Rightarrow G$      $4m^2 + 14m + 49 \Rightarrow B$   
 $2m^2 + 49 \Rightarrow D$     Autre réponse  $\Rightarrow J$

6) Développer  $(3t - 5)(8t - 2)$



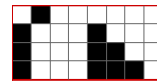
$24t^2 - 34t + 10 \Rightarrow E$      $24t^2 - 34t - 10 \Rightarrow I$   
 $24t^2 - 46t + 10 \Rightarrow A$     Autre réponse  $\Rightarrow C$

7) Factoriser  $25k^2 - 81$



$(25k - 9)^2 \Rightarrow H$      $(5k - 9)(5k + 9) \Rightarrow I$   
 $(5k - 9)^2 \Rightarrow B$     Autre réponse  $\Rightarrow D$

8) Développer  $(10g - 7)^2$



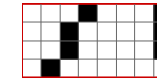
$100g^2 - 49 \Rightarrow I$      $100g^2 - 140g + 49 \Rightarrow E$   
 $100g^2 - 70g + 49 \Rightarrow A$     Autre  $\Rightarrow F$

9)  $-4(5g^2 - 3) + (5g - 3)(10g + 6)$  est égal à



$80g^2 - 6 \Rightarrow D$      $6(5g^2 - 1) \Rightarrow H$   
 $30g^2 + 60g - 6 \Rightarrow J$     Autre  $\Rightarrow B$

10) Factoriser  $(4b - 1)(11b - 4) - (8b + 3)(4b - 1)$



$(4b - 1)(19b - 1) \Rightarrow G$     Impossible  $\Rightarrow H$   
 $(4b - 1)(3b - 7) \Rightarrow D$     Autre  $\Rightarrow E$

**PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 6**

|   |   |
|---|---|
| A | F |
| B | G |
| C | H |
| D | I |
| E | J |

1) Développer  $9(3k - 4)$



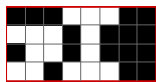
$27k - 4 \Rightarrow A$      $27k + 36 \Rightarrow E$   
 $27k + 4 \Rightarrow G$      $27k - 36 \Rightarrow D$     Autre réponse  $\Rightarrow H$

2) Développer  $(8j + 4)(3j + 5)$



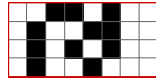
$76j + 20 \Rightarrow F$      $24j^2 + 52j + 20 \Rightarrow J$   
 $24j^2 - 28j + 20 \Rightarrow B$      $76j - 20 \Rightarrow C$     Autre réponse  $\Rightarrow I$

3) Calculer  $3h^2 + 7h - 15$  pour  $h = -5$



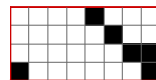
$95 \Rightarrow G$      $25 \Rightarrow A$      $-95 \Rightarrow C$      $-25 \Rightarrow H$     Autre réponse  $\Rightarrow E$

4) Factoriser  $35k - 15$



$5k(7k - 3) \Rightarrow J$      $5(7k - 15) \Rightarrow I$      $5(7k + 3) \Rightarrow D$     Autre réponse  $\Rightarrow G$

5) Développer  $(7m + 2)^2$



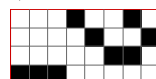
$49m^2 + 4 \Rightarrow D$      $49m^2 + 28m + 4 \Rightarrow I$   
 $7m^2 + 4 \Rightarrow C$     Autre réponse  $\Rightarrow A$

6) Développer  $(10t - 5)(7t - 8)$



$70t^2 - 5t + 40 \Rightarrow H$      $70t^2 - 115t + 40 \Rightarrow E$   
 $70t^2 + 5t - 40 \Rightarrow D$     Autre réponse  $\Rightarrow J$

7) Factoriser  $16k^2 - 49$



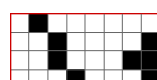
$(4k - 7)^2 \Rightarrow F$      $(4k - 7)(4k + 7) \Rightarrow C$   
 $(16k - 7)^2 \Rightarrow B$     Autre réponse  $\Rightarrow I$

8) Développer  $(4g - 9)^2$



$16g^2 - 81 \Rightarrow C$      $16g^2 - 36g + 81 \Rightarrow E$   
 $16g^2 + 72g + 81 \Rightarrow G$     Autre  $\Rightarrow B$

9)  $-7(5g^2 - 7) + (5g + 4)(10g - 8)$  est égal à



$-5(3g^2 + 4) \Rightarrow F$      $15g^2 + 80g + 17 \Rightarrow J$   
 $15g^2 + 17 \Rightarrow H$     Autre  $\Rightarrow A$

10) Factoriser  $(8b - 9)(7b - 3) - (5b + 8)(8b - 9)$

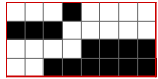


$(8b - 9)(2b - 11) \Rightarrow F$     Impossible  $\Rightarrow H$   
 $(8b - 9)(12b + 5) \Rightarrow J$     Autre  $\Rightarrow B$

## PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 7

|   |   |
|---|---|
| A | F |
| B | G |
| C | H |
| D | I |
| E | J |

1) Développer  $3(7k - 5)$



$21k + 15 \Rightarrow C$

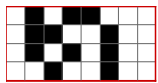
$21k - 5 \Rightarrow F$

$21k + 5 \Rightarrow E$

$21k - 15 \Rightarrow H$

Autre réponse  $\Rightarrow D$

2) Développer  $(5j + 6)(2j + 4)$



$10j^2 + 32j + 24 \Rightarrow A$

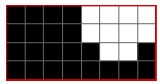
$42j + 24 \Rightarrow I$

$42j - 24 \Rightarrow G$

$10j^2 - 32j + 24 \Rightarrow B$

Autre réponse  $\Rightarrow J$

3) Calculer  $5h^2 + 2h - 7$  pour  $h = -3$



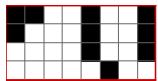
$-58 \Rightarrow D$

$-32 \Rightarrow F$

$58 \Rightarrow B$

$32 \Rightarrow J$  Autre réponse  $\Rightarrow H$

4) Factoriser  $49k - 14$



$7k(7 - 2) \Rightarrow C$

$7(7k + 2) \Rightarrow A$

$7(7k - 14) \Rightarrow G$

Autre réponse  $\Rightarrow E$

5) Développer  $(3m + 5)^2$

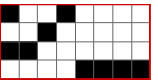


$3m^2 + 25 \Rightarrow I$

$9m^2 + 15m + 25 \Rightarrow A$

$9m^2 + 25 \Rightarrow F$  Autre réponse  $\Rightarrow B$

6) Développer  $(8t - 2)(3t - 5)$

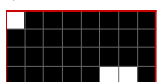


$24t^2 - 46t + 10 \Rightarrow G$

$24t^2 - 46t - 10 \Rightarrow I$

$24t^2 - 34t - 10 \Rightarrow D$  Autre réponse  $\Rightarrow C$

7) Factoriser  $9k^2 - 64$



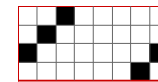
$(3k - 8)^2 \Rightarrow E$

$(3k - 8)(3k + 8) \Rightarrow I$

$(9k - 8)^2 \Rightarrow J$

Autre réponse  $\Rightarrow H$

8) Développer  $(4g - 10)^2$

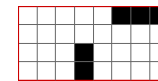


$16g^2 - 100 \Rightarrow E$

$16g^2 - 80g + 100 \Rightarrow C$

$16g^2 - 40g + 100 \Rightarrow H$  Autre  $\Rightarrow J$

9)  $-4(7g^2 - 2) + (2g - 3)(4g + 6)$  est égal à



$-2(10g^2 + 5) \Rightarrow F$

$14g^2 + 24g - 10 \Rightarrow D$

$-28g^2 + 32g + 12 \Rightarrow G$  Autre  $\Rightarrow A$

10) Factoriser  $(4b - 9)(7b - 4) - (5b + 7)(4b - 9)$



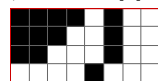
$(4b - 9)(12b + 3) \Rightarrow C$  Impossible  $\Rightarrow B$

$(4b - 9)(2b - 11) \Rightarrow D$  Autre  $\Rightarrow F$

## PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 8

|   |   |
|---|---|
| A | F |
| B | G |
| C | H |
| D | I |
| E | J |

1) Développer  $5(7k - 3)$



$35k - 15 \Rightarrow E$

$35k - 3 \Rightarrow A$

$35k + 5 \Rightarrow B$

$35k + 3 \Rightarrow D$

Autre réponse  $\Rightarrow G$

2) Développer  $(5j + 6)(2j + 4)$



$10j^2 - 32j + 24 \Rightarrow G$

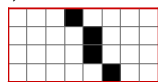
$42j - 24 \Rightarrow I$

$42j + 24 \Rightarrow C$

$10j^2 + 32j + 24 \Rightarrow B$

Autre réponse  $\Rightarrow F$

3) Calculer  $3h^2 + 2h - 7$  pour  $h = -5$



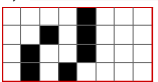
$-58 \Rightarrow C$

$-92 \Rightarrow B$

$58 \Rightarrow I$

$92 \Rightarrow A$  Autre réponse  $\Rightarrow F$

4) Factoriser  $25k - 45$



$5k(5 - 45) \Rightarrow B$

$5(5k + 45) \Rightarrow E$

$5(5k - 9) \Rightarrow G$

Autre réponse  $\Rightarrow D$

5) Développer  $(4m + 3)^2$



$16m^2 + 9 \Rightarrow G$

$16m^2 + 12m + 9 \Rightarrow I$

$4m^2 + 9 \Rightarrow E$  Autre réponse  $\Rightarrow D$

6) Développer  $(8t - 2)(3t - 5)$

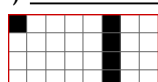


$24t^2 - 46t + 10 \Rightarrow H$

$24t^2 - 46t - 10 \Rightarrow C$

$24t^2 - 34t - 10 \Rightarrow B$  Autre réponse  $\Rightarrow A$

7) Factoriser  $4k^2 - 36$



$(2k - 6)^2 \Rightarrow D$

$(4k - 6)(4k + 6) \Rightarrow G$

$(4k - 6)^2 \Rightarrow I$

Autre réponse  $\Rightarrow F$

8) Développer  $(10g - 9)^2$



$100g^2 - 81 \Rightarrow C$

$100g^2 - 90g + 81 \Rightarrow I$

$100g^2 - 180g + 81 \Rightarrow A$  Autre  $\Rightarrow B$

9)  $-4(7g^2 - 2) + (2g - 3)(4g + 6)$  est égal à

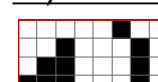


$-2(10g^2 + 5) \Rightarrow C$

$14g^2 + 24g - 10 \Rightarrow G$

$-28g^2 + 32g + 12 \Rightarrow A$  Autre  $\Rightarrow E$

10) Factoriser  $(4b - 9)(7b - 4) - (5b + 7)(4b - 9)$



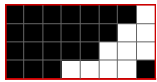
$(4b - 9)(12b + 3) \Rightarrow C$  Impossible  $\Rightarrow B$

$(4b - 9)(2b - 11) \Rightarrow J$  Autre  $\Rightarrow D$

**PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 9**

|   |   |
|---|---|
| A | B |
| C | D |

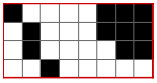
1) Développer  $4(5k - 3)$



$20k - 12 \Rightarrow C$        $20k - 3 \Rightarrow H$   
 $20k + 3 \Rightarrow B$        $20k + 12 \Rightarrow F$       Autre réponse  $\Rightarrow I$

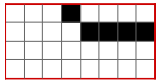
|   |   |   |
|---|---|---|
| E | F | G |
| H | I | J |

2) Développer  $(3j + 4)(5j + 7)$



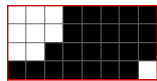
$56j - 28 \Rightarrow A$        $15j^2 + 41j + 28 \Rightarrow E$   
 $15j^2 - 41j + 28 \Rightarrow G$        $56j + 28 \Rightarrow D$       Autre réponse  $\Rightarrow H$

3) Calculer  $7h^2 + 5h - 4$  pour  $h = -2$



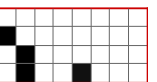
$-14 \Rightarrow I$        $-22 \Rightarrow C$        $14 \Rightarrow H$        $22 \Rightarrow B$       Autre réponse  $\Rightarrow F$

4) Factoriser  $49k - 14$



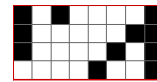
$7(7k - 2) \Rightarrow A$        $7k(7 - 2) \Rightarrow D$        $7(7k - 14) \Rightarrow C$       Autre réponse  $\Rightarrow G$

5) Développer  $(3m + 5)^2$



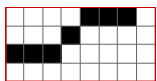
$3m^2 + 25 \Rightarrow H$        $9m^2 + 30m + 25 \Rightarrow J$   
 $9m^2 + 25 \Rightarrow A$       Autre réponse  $\Rightarrow F$

8) Développer  $(4g - 10)^2$



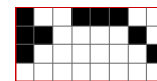
$16g^2 - 100 \Rightarrow B$        $16g^2 + 80g + 100 \Rightarrow F$   
 $16g^2 - 40g + 100 \Rightarrow C$       Autre  $\Rightarrow D$

6) Développer  $(2t - 5)(9t - 6)$



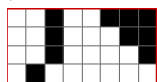
$18t^2 - 32t + 30 \Rightarrow C$        $18t^2 - 57t - 30 \Rightarrow I$   
 $18t^2 - 32t - 30 \Rightarrow D$       Autre réponse  $\Rightarrow G$

9)  $-5(8g^2 - 4) + (3g + 4)(6g - 8)$  est égal à



$-38g^2 - 42 \Rightarrow A$        $-2(11g^2 + 6) \Rightarrow F$   
 $-22g^2 + 32g - 12 \Rightarrow D$       Autre  $\Rightarrow G$

7) Factoriser  $9k^2 - 36$



$(3k - 6)^2 \Rightarrow I$        $(3k - 6)(3k + 6) \Rightarrow B$   
 $(9k - 6)^2 \Rightarrow A$       Autre réponse  $\Rightarrow F$

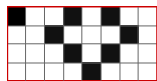
10) Factoriser  $(7b - 3)(8b - 6) - (4b + 2)(7b - 3)$



$(7b - 3)(12b - 4) \Rightarrow E$       Impossible  $\Rightarrow D$   
 $(7b - 3)(4b - 8) \Rightarrow I$       Autre  $\Rightarrow A$

**PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 10**

1) Développer  $4(9k - 5)$



$36k - 5 \Rightarrow A$        $36k + 5 \Rightarrow G$   
 $36k + 20 \Rightarrow J$        $36k - 20 \Rightarrow B$       Autre réponse  $\Rightarrow F$

|   |   |   |
|---|---|---|
| A | B | C |
| D | E | F |
| G | H | I |

2) Développer  $(7j + 3)(5j + 2)$



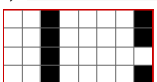
$64j + 6 \Rightarrow D$        $35j^2 + 1j + 6 \Rightarrow I$   
 $35j^2 - 29j + 6 \Rightarrow H$        $64j - 6 \Rightarrow C$       Autre réponse  $\Rightarrow E$

3) Calculer  $7h^2 + 10h - 3$  pour  $h = -2$



$-5 \Rightarrow B$        $35 \Rightarrow H$        $5 \Rightarrow I$        $-35 \Rightarrow D$       Autre réponse  $\Rightarrow G$

4) Factoriser  $44k - 77$



$4k(11k - 7) \Rightarrow H$        $4(11k - 77) \Rightarrow C$        $4k(11 - 7) \Rightarrow E$       Autre réponse  $\Rightarrow G$

5) Développer  $(5m + 4)^2$



$25m^2 + 16 \Rightarrow F$        $25m^2 + 20m + 16 \Rightarrow J$   
 $5m^2 + 16 \Rightarrow A$       Autre réponse  $\Rightarrow C$

8) Développer  $(7g - 10)^2$



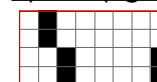
$49g^2 - 100 \Rightarrow C$        $49g^2 - 140g + 100 \Rightarrow A$   
 $49g^2 - 70g + 100 \Rightarrow H$       Autre  $\Rightarrow J$

6) Développer  $(3t - 4)(7t - 2)$



$21t^2 - 34t + 8 \Rightarrow H$        $21t^2 - 22t - 8 \Rightarrow B$   
 $21t^2 - 34t - 8 \Rightarrow F$       Autre réponse  $\Rightarrow G$

9)  $-6(4g^2 - 5) + (3g + 4)(6g - 8)$  est égal à



$-2(3g^2 + 1) \Rightarrow D$        $6g^2 + 48g - 2 \Rightarrow F$   
 $-6g^2 - 48g - 2 \Rightarrow A$       Autre  $\Rightarrow I$

7) Factoriser  $4k^2 - 81$



$(4k - 9)^2 \Rightarrow D$        $(2k - 9)(2k + 9) \Rightarrow F$   
 $(2k - 9)^2 \Rightarrow B$       Autre réponse  $\Rightarrow I$

## PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 11

1) Développer  $9(2k - 4)$      $18k - 4 \Rightarrow A$      $18k + 36 \Rightarrow E$      $18k + 4 \Rightarrow F$



$18k - 36 \Rightarrow C$     Autre réponse  $\Rightarrow H$

|   |   |   |   |
|---|---|---|---|
| A | B | C |   |
| D | E | F | G |
|   | H | I | J |

2) Développer  $(4j + 5)(7j + 2)$      $51j - 10 \Rightarrow J$      $28j^2 + 27j + 10 \Rightarrow D$



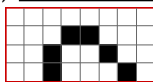
$28j^2 + 43j + 10 \Rightarrow G$      $51j + 10 \Rightarrow B$     Autre réponse  $\Rightarrow I$

3) Calculer  $6h^2 + 5h + 11$  pour  $h = -3$



$80 \Rightarrow C$      $-58 \Rightarrow F$      $-80 \Rightarrow A$      $58 \Rightarrow J$     Autre réponse  $\Rightarrow B$

4) Factoriser  $77k - 33$



$11(7k - 33) \Rightarrow C$      $11(7k - 3) \Rightarrow F$      $11(7k + 33) \Rightarrow G$     Autre réponse  $\Rightarrow E$

5) Développer  $(2m + 7)^2$



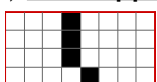
$4m^2 + 49 \Rightarrow G$      $4m^2 + 14m + 49 \Rightarrow B$   
 $2m^2 + 49 \Rightarrow D$     Autre réponse  $\Rightarrow J$

8) Développer  $(10g - 7)^2$



$100g^2 - 49 \Rightarrow I$      $100g^2 - 140g + 49 \Rightarrow E$   
 $100g^2 - 70g + 49 \Rightarrow A$     Autre  $\Rightarrow F$

6) Développer  $(3t - 5)(8t - 2)$



$24t^2 - 34t + 10 \Rightarrow E$      $24t^2 - 34t - 10 \Rightarrow I$   
 $24t^2 - 46t + 10 \Rightarrow A$     Autre réponse  $\Rightarrow C$

9)  $-4(5g^2 - 3) + (5g - 3)(10g + 6)$  est égal à



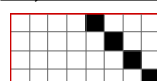
$80g^2 - 6 \Rightarrow D$      $6(5g^2 - 1) \Rightarrow H$   
 $30g^2 + 60g - 6 \Rightarrow J$     Autre  $\Rightarrow B$

7) Factoriser  $25k^2 - 81$



$(25k - 9)^2 \Rightarrow H$      $(5k - 9)(5k + 9) \Rightarrow I$   
 $(5k - 9)^2 \Rightarrow B$     Autre réponse  $\Rightarrow D$

10) Factoriser  $(4b - 1)(11b - 4) - (8b + 3)(4b - 1)$



$(4b - 1)(19b - 1) \Rightarrow G$     Impossible  $\Rightarrow H$   
 $(4b - 1)(3b - 7) \Rightarrow D$     Autre  $\Rightarrow E$

## PIXEL ART COLLABORATIF CALCUL LITTERAL GROUPE 12

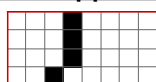
1) Développer  $9(3k - 4)$      $27k - 4 \Rightarrow A$      $27k + 36 \Rightarrow E$



$27k + 4 \Rightarrow G$      $27k - 36 \Rightarrow D$     Autre réponse  $\Rightarrow H$

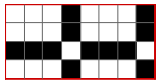
|   |   |   |
|---|---|---|
| A | B | C |
| D | E | F |
|   | G | H |
|   | I |   |

2) Développer  $(8j + 4)(3j + 5)$      $76j + 20 \Rightarrow G$      $24j^2 + 52j + 20 \Rightarrow F$



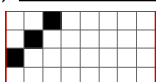
$24j^2 - 28j + 20 \Rightarrow B$      $76j - 20 \Rightarrow C$     Autre réponse  $\Rightarrow I$

3) Calculer  $3h^2 + 7h - 15$  pour  $h = -5$



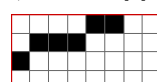
$95 \Rightarrow G$      $25 \Rightarrow A$      $-95 \Rightarrow C$      $-25 \Rightarrow H$     Autre réponse  $\Rightarrow E$

4) Factoriser  $35k - 15$



$5k(7k - 3) \Rightarrow J$      $5(7k - 15) \Rightarrow I$      $5(7k + 3) \Rightarrow D$     Autre réponse  $\Rightarrow H$

5) Développer  $(7m + 2)^2$



$49m^2 + 4 \Rightarrow D$      $49m^2 + 28m + 4 \Rightarrow I$   
 $7m^2 + 4 \Rightarrow C$     Autre réponse  $\Rightarrow A$

8) Développer  $(4g - 9)^2$



$16g^2 - 81 \Rightarrow C$      $16g^2 - 36g + 81 \Rightarrow E$   
 $16g^2 + 72g + 81 \Rightarrow H$     Autre  $\Rightarrow B$

6) Développer  $(10t - 5)(7t - 8)$



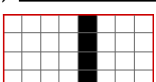
$70t^2 - 5t + 40 \Rightarrow H$      $70t^2 - 115t + 40 \Rightarrow E$   
 $70t^2 + 5t - 40 \Rightarrow D$     Autre réponse  $\Rightarrow J$

9)  $-7(5g^2 - 7) + (5g + 4)(10g - 8)$  est égal à



$-5(3g^2 + 4) \Rightarrow F$      $15g^2 + 80g + 17 \Rightarrow J$   
 $15g^2 + 17 \Rightarrow G$     Autre  $\Rightarrow A$

7) Factoriser  $16k^2 - 49$

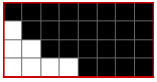


$(4k - 7)^2 \Rightarrow F$      $(4k - 7)(4k + 7) \Rightarrow C$   
 $(16k - 7)^2 \Rightarrow B$     Autre réponse  $\Rightarrow I$

**PIXEL ART COLLABORATIF CALCUL LITTERAL  
SUPPLÉMENT n° 13**

|   |   |   |   |   |
|---|---|---|---|---|
|   | A | B |   |   |
| C | D | E | F | G |
| H |   |   |   | I |

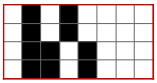
1) Développer  $(7k + 3)^2 + (3k + 2)(5k - 1)$



$49k^2 + 49k + 7 \Rightarrow E$

Autre réponse  $\Rightarrow B$

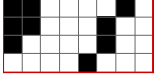
2) Développer  $(9y - 7)(11y - 3)$



$99y^2 - 104y + 21 \Rightarrow D$

Autre  $\Rightarrow H$

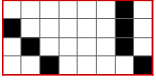
3) Calculer  $h^3 - 4h^2 + 5h + 20$  pour  $h = -2$



$-14 \Rightarrow G$

Autre  $\Rightarrow C$

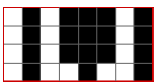
4) Factoriser  $(5k + 3)(2k - 6) - (5k + 3)^2$



$-3(5k + 3)(k + 3) \Rightarrow A$

Autre  $\Rightarrow F$

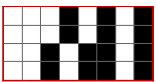
5) Développer  $(13h - 9)^2$



$169h^2 - 117h + 81 \Rightarrow I$

Autre  $\Rightarrow H$

6) Calculer  $2n^3 + 3n^2 + 5n$  pour  $n = -5$



$300 \Rightarrow G$

Autre  $\Rightarrow C$

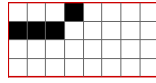
7) Factoriser  $(5j + 2)^2 - 16j^2$



$(9j + 2)(j + 2) \Rightarrow F$

Autre  $\Rightarrow A$

8) Développer  $(8g - 12)^2$



$64g^2 - 96g + 144 \Rightarrow D$

Autre  $\Rightarrow I$

9) Développer  $3(2y - 5)^2 - 6(2y^2 - 10y + 5)$



$45 \Rightarrow E$

Autre  $\Rightarrow B$

**PIXEL ART COLLABORATIF CALCUL LITTERAL  
SUPPLÉMENT n° 14**

|   |   |   |
|---|---|---|
| A | B | C |
| D | E | F |
| G | H | I |

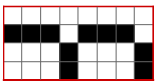
1) Développer  $(7k + 3)^2 + (3k + 2)(5k - 1)$



$49k^2 + 49k + 7 \Rightarrow A$

Autre réponse  $\Rightarrow C$

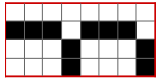
2) Développer  $(9y - 7)(11y - 3)$



$99y^2 - 104y + 21 \Rightarrow H$

Autre  $\Rightarrow F$

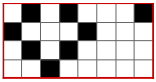
3) Calculer  $h^3 - 4h^2 + 5h + 20$  pour  $h = -2$



$-14 \Rightarrow G$

Autre  $\Rightarrow B$

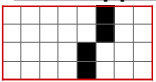
4) Factoriser  $(5k + 3)(2k - 6) - (5k + 3)^2$



$-3(5k + 3)(k + 3) \Rightarrow E$

Autre  $\Rightarrow D$

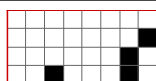
5) Développer  $(13h - 9)^2$



$169h^2 - 117h + 81 \Rightarrow H$

Autre  $\Rightarrow I$

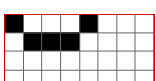
6) Calculer  $2n^3 + 3n^2 + 5n$  pour  $n = -5$



$300 \Rightarrow G$

Autre  $\Rightarrow B$

7) Factoriser  $(5j + 2)^2 - 16j^2$



$(9j + 2)(j + 2) \Rightarrow D$

Autre  $\Rightarrow D$

8) Développer  $(8g - 12)^2$



$64g^2 - 96g + 144 \Rightarrow I$

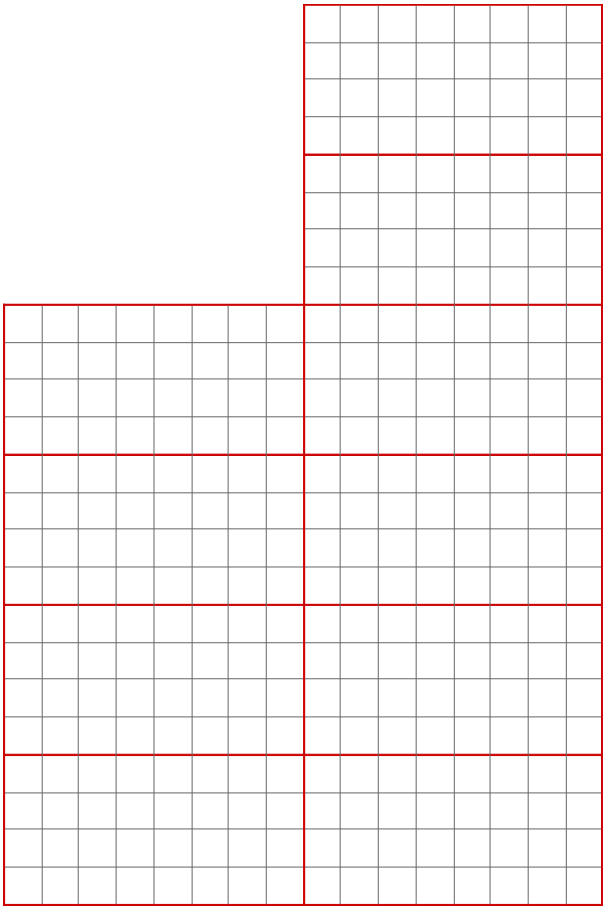
Autre  $\Rightarrow F$

9) Développer  $3(2y - 5)^2 - 6(2y^2 - 10y + 5)$

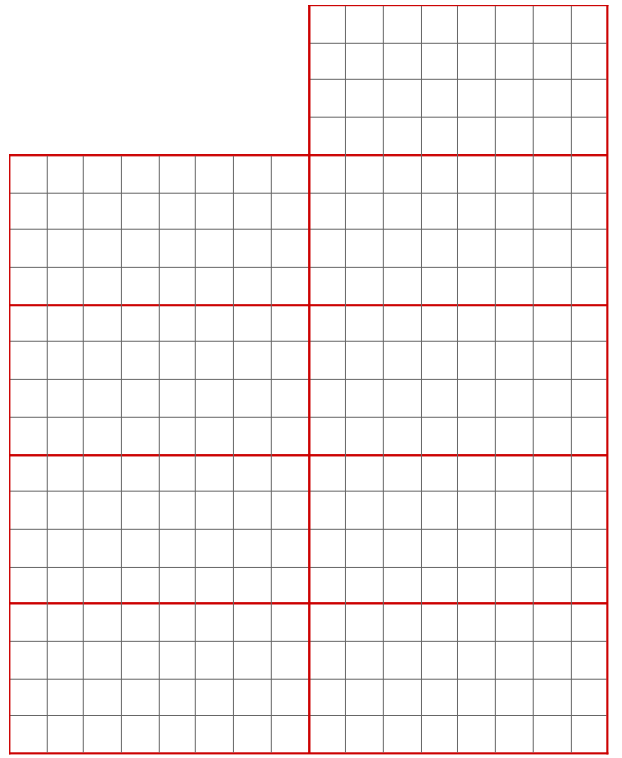


$45 \Rightarrow A$

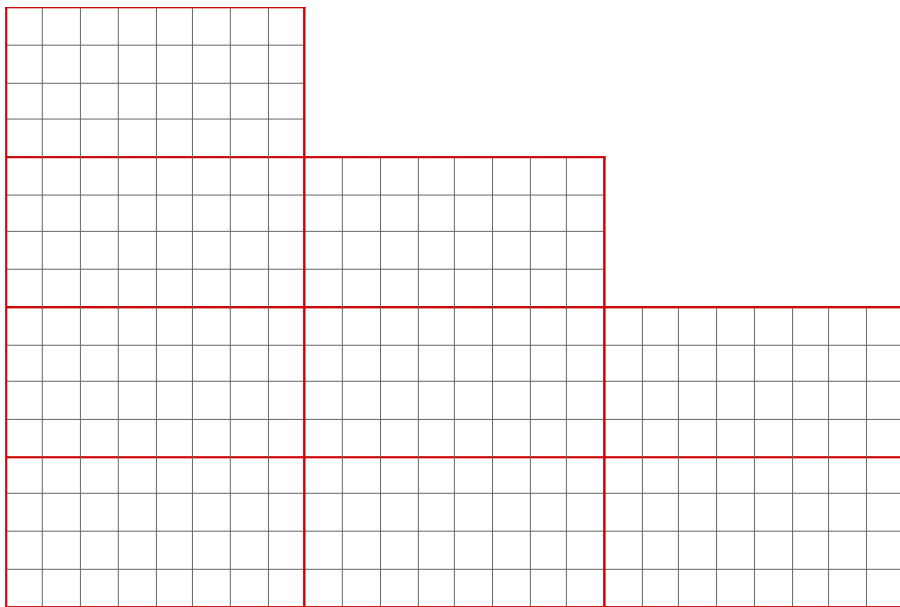
Autre  $\Rightarrow C$



GROUPE 1

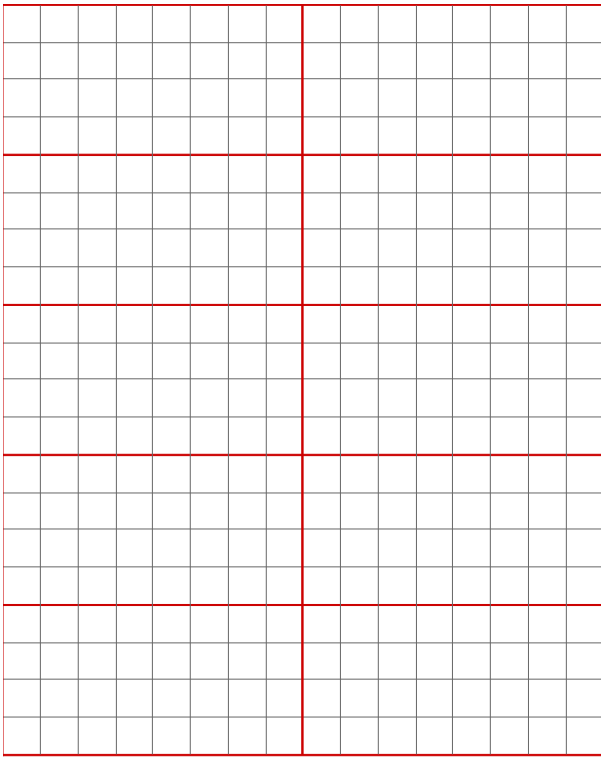


GROUPE 2

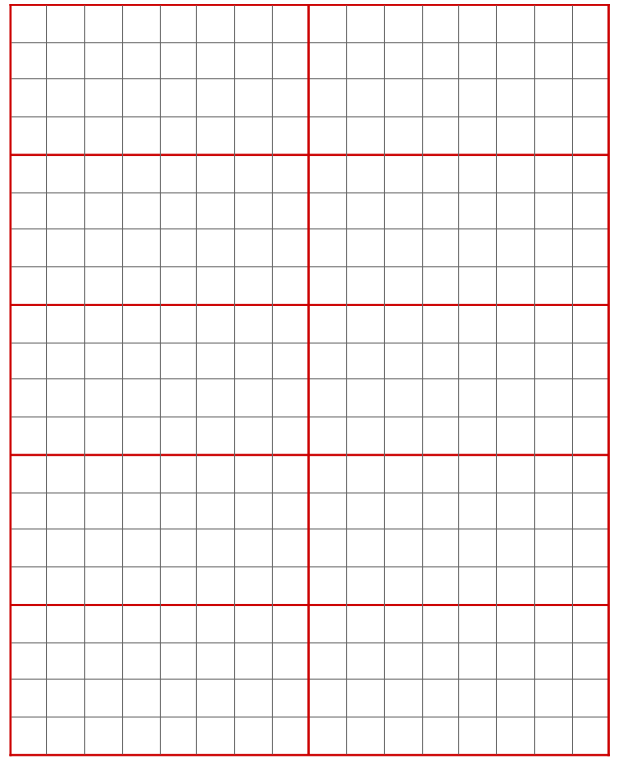


GROUPE 3

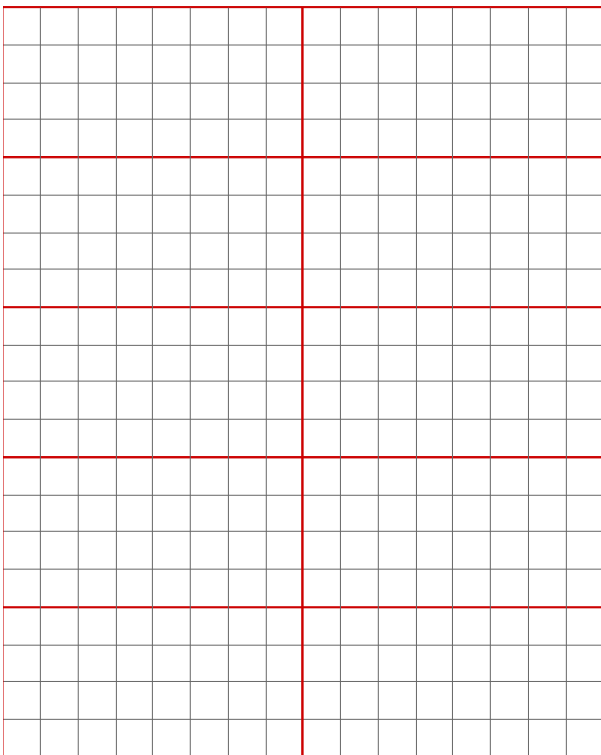




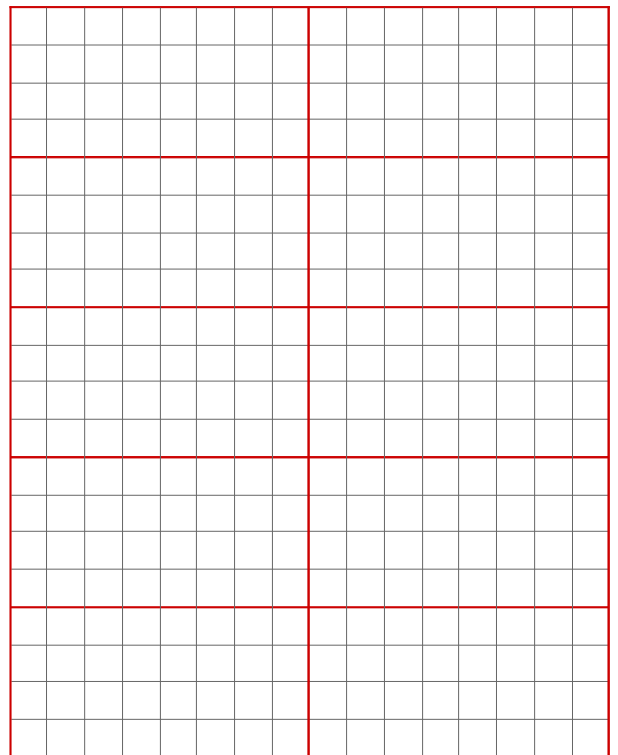
**GROUPE 5**



**GROUPE 6**

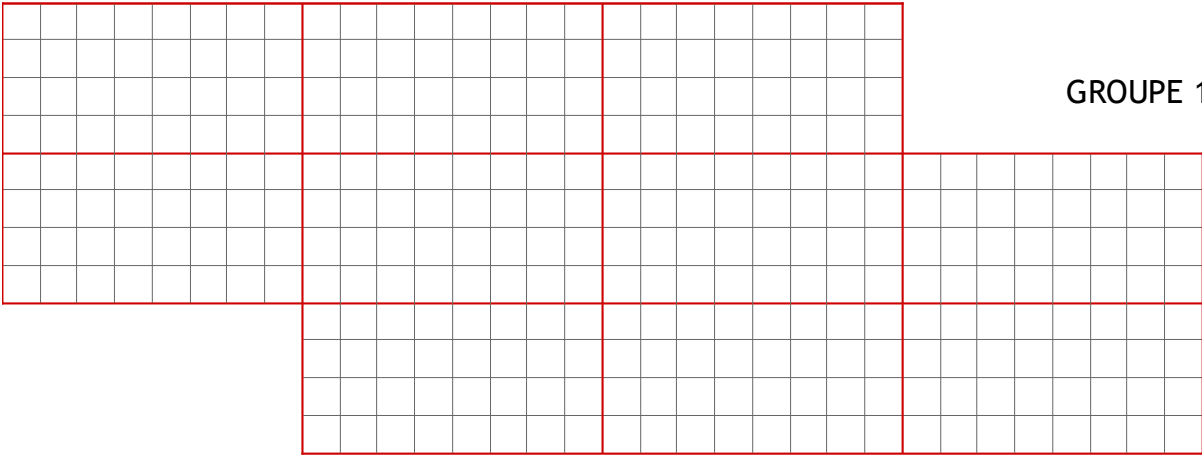


**GROUPE 7**

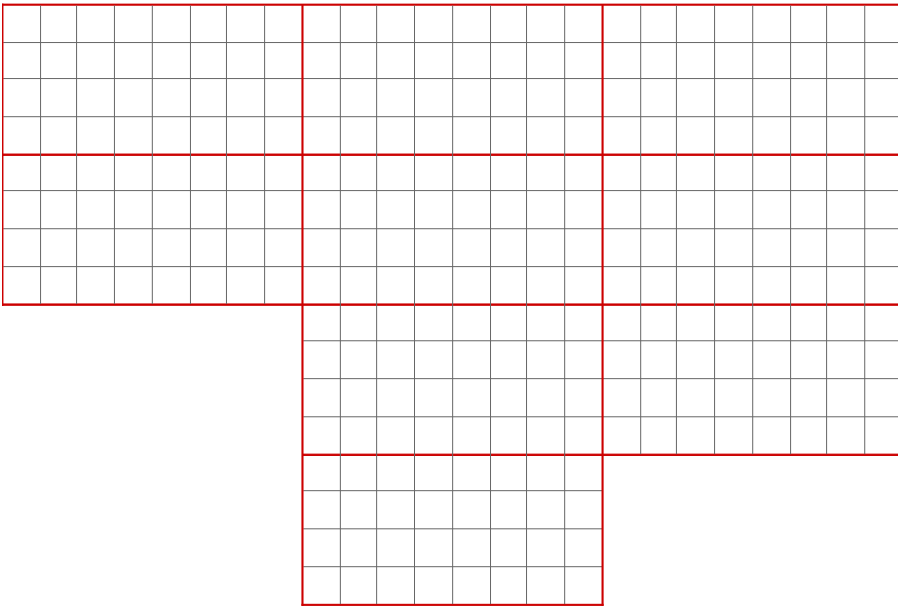


**GROUPE 8**

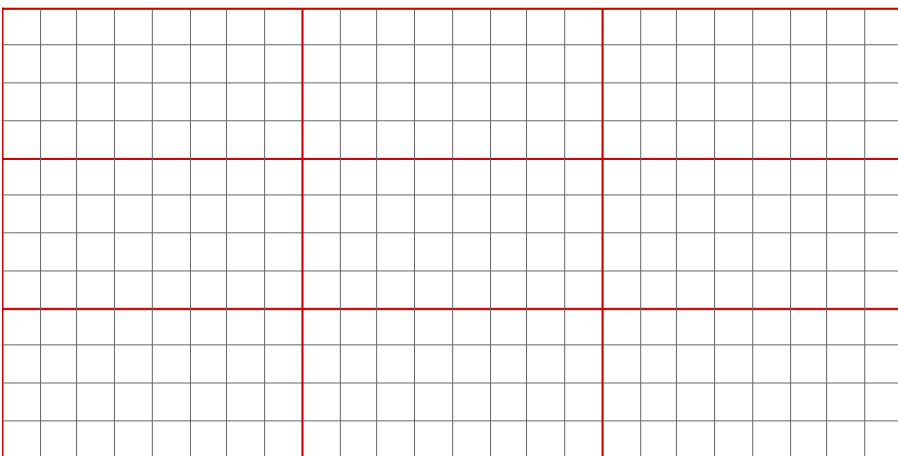




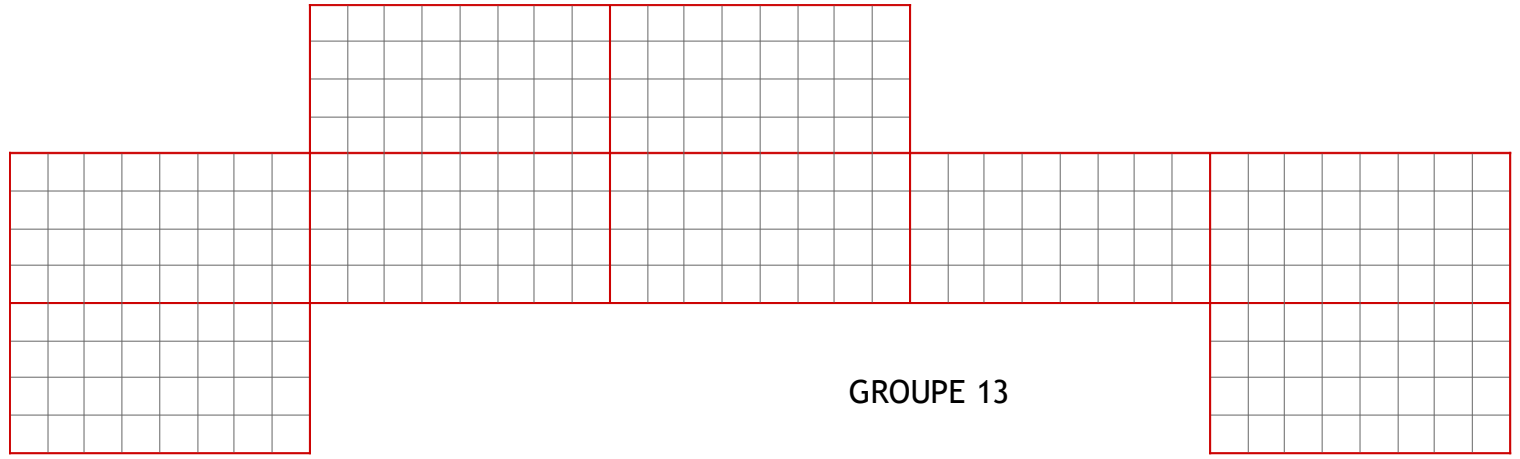
GRUPE 11



GRUPE 12



GRUPE 14



GROUPE 13