

**CYCLE 3 - Multiplier
des nombres entiers**

Le cahier d’exercices pour la classe

Les Fantastiques Exercices de Mathématiques

[www.cartablefantastique.fr](http://www.cartablefantastique.fr)

 1 Calcule le plus vite possible.

9 x 8 = ……………..

4 x 6 = ……………..

8 x 7 = ……………..

7 x 4 = ……………..

8 x 8 = ……………..

5 x 6 = ……………..

7 x 9 = ……………..

6 x 7 = ……………..

4 x 8 = ……………..

6 x 9 = ……………..

8 x 6 = ……………..

9 x 9 = ……………..

 2 Complète les multiplications.

8 x ……….. = 32

……….. x 6 = 36

7 x ……….. = 35……….. x 7 = 56

9 x ……….. = 36

……….. x 9 = 815 x ……….. = 40

……….. x 9 = 63

8 x ……….. = 64

 3 Calcule ces multiplications en ligne.

17 x 100 = ……………..

284 x 10 = ……………..

755 x 100 = .…….……..

306 x 100 = ……………..

1 090 x 10 = ……………..

62 x 1 000 = …….…....

8 540 x 100 = ………..

514 x 1 000 = ………….

4 907 x 1 000 = .…...….

 4 Sur ton cahier, recopie et complète les opérations avec 10, 100, 1 000.

195 x .….. = 19 500

706 x ….. = 7 060

31 x …… = 3 1004 058 x ….. = 40 580

5 800 x ….. = 5 800 000

317 x ….. = 317 00018 099 x ….. = 1 809 900

94 x …... = 94 000

60 830 x ….. = 608 300

 5 Calcule ces multiplications en ligne.

(10 x 7) x 100 = ……..

(100 x 8) x 100 = ……..

(10 x 60) x 1 000 = …..

(100 x 30) x 10 = ……..

(1 000 x 90) x 100 = ….

(10 x 500) x 1 000 = …..

 6 Calcule ces multiplications en ligne.

354 x 1 000 = ………..

6 122 x 1 000 = ………..

751 x 10 000 = ……….

 71 825 x 1 000 = .……..

917 631 x 10 = ………..

156 004 x 100 = ……....

289 001 x 1 000 = ..……

62 513 x 100 = .…..……

1 799 958 x 100 = ...…

 7 Recopie et complète avec le bon nombre.

1. Pour faire 500 000 je dois multiplier 5 par ……………..
2. Pour faire 70 000 je dois multiplier 70 par ……………..
3. Pour faire 200 000 je dois multiplier 20 par ……………..
4. Pour faire 9 000 000 je dois multiplier 9 par ……………..

 8 Vrai ou Faux ? Entoure la bonne étiquette. Puis, corrige la phrase si elle est fausse.

1. 100 billets de 50 € font 500€. 🡪 Vrai Faux.
2. 300 billets de 100 € font 30 000€. 🡪 Vrai Faux.
3. 60 billets de 20 € font 12 000€. 🡪 Vrai Faux.
4. 80 billets de 500 € font 40 000€. 🡪 Vrai Faux.
5. 700 billets de 500 € font 350 000€. 🡪 Vrai Faux

 9 Calcule ces multiplications en ligne.

20 x 30 = …………

400 x 50 = …………

600 x 600 = …………

8 000 x 700 =…………

90 000 x 20 = …………

7 000 x 4 000 = …………

 10 Complète les multiplications avec 50, 60, 70 ou 80.

700 x ………… = 42 000

8 000 x ………… = 400 000900 x ………… = 63 000

6 000 x ………… = 480 000

 11 Complète les multiplications.

60 x …….. = 1 800

50 x …….. = 40 000

400 x ……. = 36 000

90 x ……. = 6 300

3 000 x ….... = 120 000

700 x …….. = 49 000

 12 Calcule le plus vite possible.

13 x 3 = ………..

24 x 2 = ………..

53 x 2 = ………..

72 x 3 = ………..

 13 Calcule le plus vite possible.

423 x 2 = ……..

223 x 3 = ……..

631 x 3 = ……….

9 142 x 2 = …….

 14 Sur ton cahier, décompose les multiplications et calcule.

Exemple : 523 x 4 = (500 x 4) + (20 x 4) + (3 x 4) = 2 000 + 80 + 12 = 2 092

37 x 5 83 x 6 281 x 2 634 x 7

 15 Ces décompositions sont fausses. Trouve les erreurs, corrige-les et écris les bons résultats.

93 x 9 = (90 x 9) + (30 x 9) = 810 + 270 = 1 080

170 x 5 = (100 x 5) + (70 x 5) = 500 + 35 = 535

608 x 3 = (60 x 3) + (8 x 3) = 180 + 24 = 204

4 702 x 8 = (4 000 x 8) + (700 x 8) + (20 x 8) = 32 000 + 5 600 + 160 = 37 760

 16 Décompose comme dans les exercices précédents.

54 x 4 = ………..

82 x 6 = ………..

247 x 9 = ………..

637 x 5 = ………..

1 362 x 8 = ………..

8 495 x 7 = ………..

 17 Estime un ordre de grandeur. Exemple : 43 x 58 🡪 40 x 60 = 2 400

37 x 81 72 x 63 88 x 49 17 x 54

 18 Sans poser les multiplications, entoure le nombre le plus proche du résultat.

29 x 52 🡪 1 000 1 500 2 000.

43 x 71 🡪 1 800 2 100 2 800.

305 x 12 🡪 3 000 4 000 5 000.

227 x 99 🡪 18 000 20 000 27 000.

 19 Sur ton cahier, pose et calcule les multiplications.

27 x 4

56 x 7

83 x 9

 20 Sur ton cahier, pose et calcule les multiplications.

44 x 3

106 x 5

237 x 6

 21 Sur ton cahier, pose et calcule les multiplications.

405 x 7 367 x 2940 x 5

 22 DÉFI Complète les multiplications.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **9** |  | **3** |  | **2** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **2** |  | **7** |  | **9** |  | **6** |  |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **6** |  | **0** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **7** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **3** |  | **5** |  |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **1** |  | **4** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **9** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **7** |  | **3** |  |  |  | **6** |  |
|  |  |  |  |  |  |  |  |  |

 23 Sur ton cahier, pose et calcule les multiplications.

713 x 4

852 x 6

671 x 9

 24 Sur ton cahier, pose et calcule les multiplications.

5 418 x 2

6 049 x 6

3 500 x 9

 25 Sur ton cahier, pose et calcule les multiplications.

4 802 x 5

7 713 x 8

2 935 x 4

 26 Complète les multiplications.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **4** |  | **7** |  | **1** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **3** |  | **7** |  |  |  | **8** |  |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **9** |  | **2** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **6** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **2** |  | **0** |  |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **4** |  | **7** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **5** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **2** |  | **2** |  |  |  | **5** |  |
|  |  |  |  |  |  |  |  |  |

 27 Ces multiplications sont fausses. Barre les chiffres du résultat qui sont faux et écris le bon résultat dans les cases vides.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **6** |  | **3** |  | **4** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **2** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **1** |  | **5** |  | **9** |  | **8** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **8** |  | **0** |  | **3** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **5** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **4** |  | **0** |  | **2** |  | **0** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **9** |  | **3** |  | **2** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **3** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **2** |  | **7** |  | **6** |  | **9** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

 28 Ces multiplications sont fausses. Barre les chiffres du résultat qui sont faux et écris le bon résultat dans les cases vides.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **5** |  | **2** |  | **4** |  |
|  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **5** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **4** |  | **7** |  | **2** |  | **0** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  | **1** |  | **4** |  | **6** |  | **0** |
|  |  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  |  |  | **4** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  | **5** |  | **9** |  | **4** |  | **4** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

 29 Décompose les multiplications comme dans l’exemple puis calcule.

Exemple : 23 x 14 = (23 x 10) + (23 x 4) = 230 + 92 = 322

42 x 21 53 x 17 105 x 26 87 x 13

 30 Estime un ordre de grandeur.

Exemple : 309 x 48 = 300 x 50 = 15 000

189 x 31 = …………………………………………………………………………………..

581 x 72 = …………………………………………………………………………………..

4 102 x 48 = …………………………………………………………………………………..

8 443 x 99 = …………………………………………………………………………………..

 31 Sur ton cahier, pose et calcule les multiplications.

72 x 13

86 x 28

34 x 40

91 x 15

52 x 39

70 x 90

 32 Sur ton cahier, pose et calcule les multiplications.

371 x 35

814 x 59

607 x 12

 33 Sur ton cahier, pose et calcule les multiplications.

950 x 42

786 x 72

234 x 80

 34 Sur ton cahier, pose et calcule les multiplications.

6 280 x 17

2 437 x 82

3 550 x 90

7 081 x 44

 35 Vrai ou faux ? Avec ta calculatrice, vérifie ces décompositions. Si elles sont fausses, corrige-les.

1. 158 x 54 = (158 x 50) + (158 x 4) = 7 900 + 6 320 = 14 220 Vrai Faux.
2. 284 x 49 = (284 x 40) + (284 x 9) = 11 360 + 2 556 = 13 916 Vrai Faux.
3. 437 x 71 = (437 x 70) + (437 x 1) = 26 220 + 437 = 26 657 Vrai Faux.

 36 Estime un ordre de grandeur. Puis, avec ta calculatrice, calcule le résultat exact.

Exemple : 617 x 53 = 600 x 50 = 30 000

1. 819 x 78 = ……………………………………………………………………………..
2. 293 x 62 = ……………………………………………………………………………..
3. 1 431 x 59 = ……………………………………………………………………………..

 37 Complète ces multiplications.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **2** |  | **5** |  | **3** |  | **4** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  |  |  | **1** |  | **5** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **1** |  | **1** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **1** |  | **2** |  | **6** |  |  |  | **0** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | **3** |  | **4** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **3** |  | **8** |  | **0** |  | **1** |  | **0** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **9** |  | **1** |  | **4** |  | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  |  |  | **2** |  | **7** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | **1** |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **6** |  |  |  | **0** |  | **0** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | **1** |  | **8** |  | **2** |  |  |  |  |  | **0** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | **2** |  | **4** |  | **6** |  | **8** |  | **6** |  | **1** |
|  |  |  |  |  |  |  |  |  |  |  |  |

 38 DÉFI Ces multiplications sont fausses. Trouve les erreurs et corrige-les.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **3** |  | **6** |  | **1** |
|  |  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  | **5** |  | **2** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  | **1** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **8** |  | **2** |  | **2** |
|  |  |  |  |  |  |  |  |  |  |
|  | **1** |  | **8** |  | **5** |  | **5** |  | **0** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **1** |  | **9** |  | **3** |  | **7** |  | **2** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **1** |  | **9** |  | **8** |  | **2** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | **X** |  |  |  |  |  |  |  | **4** |  | **3** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **1** |  | **1** |  | **1** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **6** |  | **9** |  | **4** |  | **8** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **7** |  | **9** |  | **6** |  | **8** |  | **0** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **8** |  | **6** |  | **6** |  | **2** |  | **8** |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |