

**CYCLE 3 - Multiplier  
des nombres décimaux**

Le cahier d’exercices pour la classe

Les Fantastiques Exercices de Mathématiques

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

1 Entoure la bonne étiquette.

Qui est 10 fois plus grand que 5,3 ? 0,53 53 530 .

Qui est 100 fois plus grand que 8,1 ? 0,81 81 810 .

2 Entoure la bonne étiquette.

Qui est 100 fois plus grand que 9,46 ? 94,6 946 9 460 .

Qui est 10 fois plus grand que 15,25 ? 152,5 1525 15 250 .

3 Calcule en ligne.

4,5 x 10 = 45

36,8 x 10 = 368

56,27 x 10 = 562,7

191,4 x 10 = 1 914

318,93 x 10 = 3 189,3

2 436,8 x 10 = 24 368

4 Calcule en ligne.

2,9 x 100 = 290

16,7 x 100 = 1 670

40,1 x 100 = 4 010

283,9 x 100 = 28 390

714,05 x 100 = 71 405

964,38 x 100 = 96 438

5 Entoure en rouge le nombre multiplié par 10 et en vert le nombre multiplié par 100.

1. 7,53 🡪 75,3 7 530 0,753 753 .
2. 42,68 🡪 4,268 4 268 426,8 0,4268 .
3. 641,9 🡪 6 419 64,19 64 190 6,419 .

6 Calcule en ligne.

19,3 x 100 = 1 930

82,14 x 10 = 821,4

4,52 x 1 000 = 4 520

347,02 x 100 = 34 702

9,258 x 10 = 92,58

74,81 x 1 000 = 74 810

7 Tom a oublié de mettre une virgule au résultat. Ajoute la virgule manquante.

6,317 x 10 = 63**,**17

5,752 x 100 = 575**,**2

0,349 x 100 = 34**,**9

0,033 x 10 = 0**,**33

87,66 x 10 = 876**,**6

71,362 x 100 = 7136**,**2

8 Recopie et complète les multiplications avec 10, 100 ou 1 000.

18,94 x 100 = 1 894

347,1 x 10 = 3 471

7,25 x 10 = 72,5

0,9986 x 1 000 = 9 986

0,418 x 100 = 41,8

60,75 x 1 000 = 60 750

9 Recopie et complète les multiplications.

1,56 x 10 = 15,6

7,489 x 1 000 = 7 489

23,61 x 10 = 236,1

0,1578 x 1 000 = 157,8

39,78 x 100 = 3 978

10,85 x 10 = 108,5

5,003 x 100 = 500,3

10,47 x 1 000 = 10 470

912,35 x 10 = 9 123,5

0,028 x 1 000 = 28

0,125 x 10 = 1,25

2,190 x 1 000 = 2 190

10 Résous le problème. Pose les opérations en ligne.

Luc a 1 000 €. Il achète 1 000 pommes à 0,85 € l’unité et 100 poires à 1,25 € l’unité.   
Combien Luc dépense-t-il ? Et combien lui reste-t-il d’euros ?

0,85 x 1 000 = 850 🡪 1 000 pommes coûtent 850 €

1,25 x 100 = 125 🡪 100 poires coûtent 125 €

850 + 125 = 975 🡪 En tout, les pommes et les poires coûtent 975 €

1 000 – 975 = 25 🡪 Il reste 25 € à Luc.

11 Arrondis les nombres décimaux puis calcule.

Exemple : 19,7 x 5,2 🡪 20 x 5 = 100

6,8 x 4,1 🡪 7 x 4 = 28

4,9 x 9,2 🡪 5 x 9 = 45

10,3 x 9,7 🡪 10 x 10 = 100

29,9 x 8,3 🡪 30 x 8 = 240

40,04 x 5,2 🡪 40 x 5 = 200

8,7 x 10,99 🡪 9 x 11 = 99

12 Calcule les multiplications posées. Attention, n’oublie pas de placer la virgule au résultat.

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13 Sur ton cahier, pose et calcule les multiplications.

6,2 x 7 = 43,4 7,5 x 9 = 67,5 90,3 x 8 = 722,4 54,9 x 4 = 219,6

14 Résous le problème.

Un camionneur roule 82,4 kilomètres tous les jours.   
Combien de kilomètres parcourt-il en 5 jours ? Et en 10 jours ?

82,4 x 5 = 412 🡪 En 5 jours, un camionneur parcourt 412 kilomètres.   
82,4 x 10 = 824 🡪 En 10 jours, un camionneur parcourt 824 kilomètres.  
Tu peux aussi faire : 412 + 412 = 824.

15 Calcule les multiplications posées.

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16 Résous le problème. Pose l’opération en colonnes.

Paul prend un bain une fois par semaine. Sa baignoire peut contenir 154,75 litre d’eau.   
Quelle quantité d’eau a-t-il utilisé en 1 mois ? en 2 mois ? en 12 mois ?

154,75 x 4 = 619 🡪 Paul utilise 619 litres d’eau par mois.

154,75 x 8 = 1 238 🡪 Paul utilise 1 238 litre d’eau en deux mois.

Tu peux aussi calculer 619 + 619 = 1 238

154,75 x 12 = 1 857 🡪 Paul utilise 1 857 litres d’eau en un an.

17 Calcule les multiplications posées.

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18 Il manque la virgule au résultat. Ajoute-la pour avoir le bon résultat.

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19 Sur ton cahier, pose et calcule les multiplications.

57,49 x 6 = 344,94 1 602,8 x 3 = 4 808,4 9,217 x 8 = 73,736 6,9582 x 7 = 48,7074

20 Il manque la virgule au résultat. Ajoute-la pour avoir le bon résultat.

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21 Calcule les multiplications posées.

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22 Sur ton cahier, pose et calcule les multiplications.

47,8 x 19 = 908,2 162,83 x 26 = 4 233,58

34,507 x 53 = 1 828,871 9,42 x 65 = 612,3

23 Pose la multiplication 241 x 5. Puis trouve les résultats des multiplications suivantes sans poser l’opération.

24,1 x 5 = 120,5

241 x 50 = 12 050

2,41 x 5 = 12,052,41 x 50 = 120,5

0,241 x 5 = 1,205

0,241 x 50 = 12,05

24 Pose la multiplication 735 x 4. Puis trouve les résultats des multiplications suivantes sans poser l’opération.

7,35 x 4 = 29,4

0,735 x 4 = 2,94

73,5 x 400 = 29 4007,35 x 40 =294

0,735 x 400 = 294

73,5 x 40 = 2 940

25 Sur ton cahier, pose et calcule les multiplications.

5 727,61 x 4 = 22 910,44 14 270,5 x 8 = 114 164 6 903,516 x 6 = 41 421,096

26 Sur ton cahier, pose et calcule les multiplications.

94,51 x 36 = 3 402,36 50,478 x 15 = 757,17

3 247,6 x 73 = 237 074,8 465,925 x 28 = 13 045,9

27 DÉFI   Le résultat de cette multiplication est faux. Trouve les erreurs et corrige-les.

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|  |  |  | 3 |  | 2 |  | 0 |  | 6 |  | 6 |  | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 9 |  | 1 |  | 6 |  | 1 |  | 8 |  | **0** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 |  | 2 |  | 3 |  | 6 |  | 8 |  | 4 | , | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Il manque le zéro. Il faut donc décaler les chiffres de seconde ligne de calcule vers la gauche. En conséquence, il faut recalculer le résultat.

La virgule du résultat n’est pas bien placée.

28 Il manque la virgule au résultat. Ajoute-la pour avoir le bon résultat.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 7 |  | 4 | , | 5 |  | 6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | X |  |  |  |  |  |  |  | 7 | , | 0 |  | 4 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5 |  | 2 |  | 4 | , | 9 |  | 0 |  | 2 |  | 4 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 |  | 5 |  | 4 | , | 8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | X |  |  |  |  |  |  |  | 1 |  | 2 | , | 9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 1 |  | 9 |  | 9 |  | 6 | , | 9 |  | 6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 |  | 2 | , | 4 |  | 7 |  | 1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | X |  |  |  |  |  |  |  |  |  | 2 |  | 3 | , | 5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 2 |  | 9 |  | 3 | , | 0 |  | 6 |  | 8 |  | 5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

29 Calcule les multiplications posées.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 1 |  | 5 |  | 4 | , | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | X |  |  |  |  |  |  |  | 6 | , | 8 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 1 |  | 2 |  | 3 |  | 4 |  | 4 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 9 |  | 2 |  | 5 |  | 8 |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 |  | 0 |  | 4 |  | 9 | , | 2 |  | 4 |
|  |  |  |  |  |  |  |  |  |  |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 9 |  | 0 |  | 3 | , | 7 |  | 6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | X |  |  |  |  |  |  |  |  |  | 1 |  | 7 | , | 5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 1 |  | 1 |  | 1 |  | 1 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 4 |  | 5 |  | 1 |  | 8 |  | 8 |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 6 |  | 3 |  | 2 |  | 6 |  | 3 |  | 2 |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 9 |  | 0 |  | 3 |  | 7 |  | 6 |  | 0 |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 |  | 5 |  | 8 |  | 1 |  | 5 | , | 8 |  | 0 |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

30 Sur ton cahier, pose et calcule les multiplications.

75,6 x 29,2 = 2 207,52 431,72 x 8,63 = 3725,7436

550,3 x 12,48 = 6 867,744