



# 一、小数乘法

## 小数乘整数(1)

1. 算一算, 填一填。

$$\begin{array}{r} 2.4 \times \square \rightarrow 24 \\ \times 2 \quad \div \square \times 2 \\ \hline 4.8 \leftarrow 48 \end{array}$$

$$\begin{array}{r} 3.7 \times \square \rightarrow 37 \\ \times 3 \quad \div \square \times 3 \\ \hline 11.1 \leftarrow 111 \end{array}$$

$$\begin{array}{r} 3.08 \xrightarrow{\times 100} \square\square\square \\ \times 3 \quad \times 3 \\ \hline \square.\square\square \xleftarrow{\div 100} \square\square\square \end{array}$$

$$\begin{array}{r} 12.4 \xrightarrow{\times 10} \square\square\square \\ \times 4 \quad \times 4 \\ \hline \square\square.\square \xleftarrow{\div 10} \square\square\square \end{array}$$

2. 用竖式计算下面各题。

$$\begin{array}{r} 3.6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2.32 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2.07 \\ \times 4 \\ \hline \end{array}$$

$$3.8 \times 2 =$$

$$11.7 \times 6 =$$

$$1.3 \times 14 =$$





### 小数乘整数(2)

1. 照样子计算下面各题。

$$\begin{array}{r}
 0.84 \xrightarrow{\times( )} \square\square \\
 \times \quad 5 \quad \times \quad 5 \\
 \hline
 \square.\square \xleftarrow{\div( )} \square\square 0
 \end{array}$$

$$\begin{array}{r}
 1.05 \xrightarrow{\times( )} \square\square\square \\
 \times \quad 4 \quad \times \quad 4 \\
 \hline
 \square.\square \xleftarrow{\div( )} \square\square 0
 \end{array}$$

$$\begin{array}{r}
 4.06 \xrightarrow{( )} \square\square\square \\
 \times \quad 40 \quad \times \quad \square\square \\
 \hline
 ( ) \xleftarrow{( )} \square\square
 \end{array}$$

$$\begin{array}{r}
 3.2 \xrightarrow{( )} \square\square \\
 \times \quad 200 \quad \times \quad \square\square\square \\
 \hline
 ( ) \xleftarrow{( )} \square\square\square
 \end{array}$$

$$\begin{array}{r}
 0.12 \\
 \times \quad 5 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1.48 \\
 \times \quad 50 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 9.05 \\
 \times \quad 8 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 0.96 \\
 \times \quad 15 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 0.092 \\
 \times \quad 45 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 8.75 \\
 \times \quad 36 \\
 \hline
 \end{array}$$

2. 列竖式计算。

0.25 × 8 =

1.4 × 300 =

3.5 × 60 =





### 小数乘整数(3)

1. 先算一算,再比一比。

$$\begin{array}{r} 39 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3.9 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 0.39 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 90 \\ \hline \end{array}$$

$$\begin{array}{r} 4.5 \\ \times 90 \\ \hline \end{array}$$

$$\begin{array}{r} 0.45 \\ \times 90 \\ \hline \end{array}$$

2. 给下面各题的积点上小数点。

$$\begin{array}{r} 154 \\ \times 4 \\ \hline 616 \end{array}$$

$$\begin{array}{r} 1.54 \\ \times 4 \\ \hline 616 \end{array}$$

$$\begin{array}{r} 15.4 \\ \times 40 \\ \hline 6160 \end{array}$$

$$\begin{array}{r} 1.54 \\ \times 40 \\ \hline 6160 \end{array}$$

$$\begin{array}{r} 0.154 \\ \times 40 \\ \hline 6160 \end{array}$$

$$\begin{array}{r} 0.154 \\ \times 400 \\ \hline 61600 \end{array}$$

$$\begin{array}{r} 3.2 \\ \times 5 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 32 \\ \times 0.5 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 0.32 \\ \times 5 \\ \hline 160 \end{array}$$



**每天一得** 小数乘整十、整百的数,可以用小数乘整十、整百数0前面的数,先在末尾添上0后,再给积点上小数点。



## 小数乘整数(4)

列竖式计算。

$0.83 \times 3 =$

$$\begin{array}{r} 0.83 \\ \times 3 \\ \hline \end{array}$$

$2.13 \times 6 =$

$$\begin{array}{r} 2.13 \\ \times 6 \\ \hline \end{array}$$

$3.02 \times 14 =$

$$\begin{array}{r} 3.02 \\ \times 14 \\ \hline \end{array}$$

$3.2 \times 30 =$

$$\begin{array}{r} 3.2 \\ \times 30 \\ \hline \end{array}$$

$1.08 \times 60 =$

$$\begin{array}{r} 1.08 \\ \times 60 \\ \hline \end{array}$$

$2.17 \times 300 =$

$$\begin{array}{r} 2.17 \\ \times 300 \\ \hline \end{array}$$

$92 \times 0.05 =$

$$\begin{array}{r} 92 \\ \times 0.05 \\ \hline \end{array}$$

$0.125 \times 16 =$

$$\begin{array}{r} 0.125 \\ \times 16 \\ \hline \end{array}$$

$12 \times 0.431 =$

$$\begin{array}{r} 0.431 \\ \times 12 \\ \hline \end{array}$$



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每天一得 积的小数位数包含小数末尾的0。



### 小数乘小数(1)

照样子用竖式计算下面各题。

$$\begin{array}{r}
 7.4 \xrightarrow{\times 10} 74 \\
 \times 0.2 \xrightarrow{\times 10} \times 2 \\
 \hline
 \square\square\square \xleftarrow{\div 100} 148
 \end{array}$$

$$\begin{array}{r}
 1.69 \xrightarrow{\times (\quad)} 169 \\
 \times 0.8 \xrightarrow{\times (\quad)} \times 8 \\
 \hline
 1.352 \xleftarrow{\div (\quad)} 1352
 \end{array}$$

$$\begin{array}{r}
 3.3 \xrightarrow{(\quad)} 33 \\
 \times 5.2 \xrightarrow{(\quad)} \times 52 \\
 \hline
 66 \\
 165 \\
 \hline
 \square\square\square\square \xleftarrow{(\quad)} \square\square\square\square
 \end{array}$$

$$\begin{array}{r}
 3.12 \xrightarrow{\times 100} \square\square\square \\
 \times 2.4 \xrightarrow{\times 10} \times \square\square \\
 \hline
 \square\square4\square \\
 \square\square\square \\
 \hline
 \square\square\square\square \xleftarrow{\div (\quad)} \square\square\square\square
 \end{array}$$

4.6 × 1.2 =

$$\begin{array}{r}
 4.6 \\
 \times 1.2 \\
 \hline
 \square\square \\
 \square\square \\
 \hline
 \square\square\square
 \end{array}$$

4.31 × 2.2 =

$$\begin{array}{r}
 4.31 \\
 \times 2.2 \\
 \hline
 \square\square\square \\
 \square\square\square \\
 \hline
 \square\square\square\square
 \end{array}$$

6.8 × 2.3 =

4.26 × 2.8 =





### 小数乘小数(2)

1. 照样子用竖式计算下面各题。

$$\begin{array}{r}
 0.46 \xrightarrow{\times(\quad)} 46 \\
 \times 0.04 \xrightarrow{\times(\quad)} \times 4 \\
 \hline
 \square\square\square\square\square \xleftarrow{\div(\quad)} 184
 \end{array}$$

$$\begin{array}{r}
 0.623 \xrightarrow{\times(\quad)} 623 \\
 \times 0.26 \xrightarrow{\times(\quad)} \times 26 \\
 \hline
 \square\square\square\square \\
 \square\square\square\square \\
 \hline
 \square\square\square\square\square \xleftarrow{\div(\quad)} \square\square\square\square\square
 \end{array}$$

2. 计算下列各题。

$$\begin{array}{r}
 0.82 \\
 \times 0.08 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1.07 \\
 \times 0.8 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 0.35 \\
 \times 0.15 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1.31 \\
 \times 0.12 \\
 \hline
 \end{array}$$





### 小数乘小数(3)

照样子用竖式计算下面各题,并验算。

$54 \times 1.6 = 86.4$

5 4	↙ ↘	1. 6
× 1. 6		× 5 4
3 2 4	验算:	□ □
□ □		8 0
□ □ □		□ □ □

$42 \times 0.085 = 3.57$

0. 0 8 5	↙ ↘	4 2
×		× 0. 0 8 5
1 7 0	验算:	□ □ □
□ □ □		3 3 6
□ . 5 7 0		□ . 5 7 0

$0.82 \times 0.3 =$

0. 8 2	↙ ↘	0. 3
× 0. 3		× 0. 8 2
□ □ □	验算:	□ □ □

$4.25 \times 0.11 =$

4. 2 5	↙ ↘	0. 1 1
× 0. 1 1		× 4. 2 5
□ □ □ □	验算:	□ □ □ □

$0.94 \times 0.36 =$

0. 9 4	↙ ↘	0. 3 6
× 0. 3 6		× 0. 9 4
□ □ □ □	验算:	□ □ □ □

$7.5 \times 1.07 =$

7. 5	↙ ↘	1. 0 7
× 1. 0 7		× 7. 5
□ □ □ □	验算:	□ □ □ □



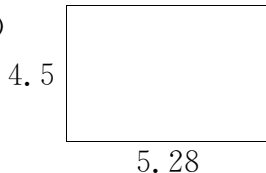
**每日一得** 乘法验算时可以交换两个因数的位置再乘一遍,看两次乘得的积是否相等。



### 小数乘小数(4)

计算下面各图形的面积。(单位:cm)

(1)

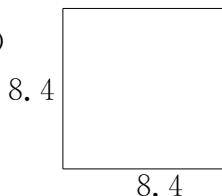


面积:

$$5.28 \times 4.5 =$$

$$\begin{array}{r} 5.28 \\ \times 4.5 \\ \hline \end{array}$$

(2)

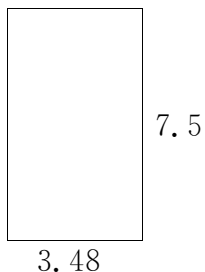


面积:

$$8.4 \times 8.4 =$$

$$\begin{array}{r} 8.4 \\ \times 8.4 \\ \hline \end{array}$$

(3)

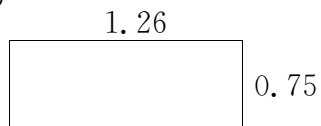


面积:

$$7.5 \times 3.48 =$$

$$\begin{array}{r} 3.48 \\ \times 7.5 \\ \hline \end{array}$$

(4)



面积:

$$1.26 \times 0.75 =$$

$$\begin{array}{r} 1.26 \\ \times 0.75 \\ \hline \end{array}$$



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每天一得 一个数(0除外)乘大于1的数,积比原来的数大。





## 小数乘小数(5)

检查下列各题,把错误的改正过来。

$$\begin{array}{r} 2.3 \\ \times 6 \\ \hline 138 \end{array}$$

改正:  $\begin{array}{r} 2.3 \\ \times 6 \\ \hline \square\square\square \end{array}$

$$\begin{array}{r} 3.25 \\ \times 0.04 \\ \hline 13.\cancel{0}\cancel{0} \end{array}$$

改正:  $\begin{array}{r} 3.25 \\ \times 0.04 \\ \hline \end{array}$

$$\begin{array}{r} 3.15 \\ \times 63 \\ \hline 945 \\ \hline 1890 \\ \hline 28.35 \end{array}$$

改正:  $\begin{array}{r} 3.15 \\ \times 63 \\ \hline \end{array}$

$$\begin{array}{r} 0.286 \\ \times 1.6 \\ \hline 1716 \\ \hline 286 \\ \hline 4.576 \end{array}$$

改正:  $\begin{array}{r} 0.286 \\ \times 1.6 \\ \hline \end{array}$

$$\begin{array}{r} 0.36 \\ \times 15 \\ \hline 180 \\ \hline 36 \\ \hline 0.54 \end{array}$$

改正:  $\begin{array}{r} 0.36 \\ \times 15 \\ \hline \end{array}$

$$\begin{array}{r} 0.076 \\ \times 2.5 \\ \hline 380 \\ \hline 152 \\ \hline 0.0019\cancel{0}\cancel{0} \end{array}$$

改正:  $\begin{array}{r} 0.076 \\ \times 2.5 \\ \hline \end{array}$

$$\begin{array}{r} 0.32 \\ \times 0.46 \\ \hline 192 \\ \hline 128 \\ \hline 14.72 \end{array}$$

改正:  $\begin{array}{r} 0.32 \\ \times 0.46 \\ \hline \end{array}$

$$\begin{array}{r} 4.08 \\ \times 1.4 \\ \hline 192 \\ \hline 408 \\ \hline 4.272 \end{array}$$

改正:  $\begin{array}{r} 4.08 \\ \times 1.4 \\ \hline \end{array}$





### 积的近似数

用竖式计算下面各题,并按要求求积的近似数。

(1)积保留整数。

$2.5 \times 6.77 \approx (\quad)$

$$\begin{array}{r} 6.77 \\ \times 2.5 \\ \hline 3385 \\ 1354 \\ \hline 16.925 \end{array}$$

↑十分位满( ),向个位进( )。

$3.82 \times 8.5 \approx$

$$\begin{array}{r} 3.82 \\ \times 8.5 \\ \hline \end{array}$$

(2)积精确到十分位。

$9.52 \times 0.75 \approx (\quad)$

$$\begin{array}{r} 9.52 \\ \times 0.75 \\ \hline 4760 \\ 6664 \\ \hline 7.1400 \end{array}$$

↑百分位不足( ),应( )。

$8.04 \times 6.6 \approx$

$$\begin{array}{r} 8.04 \\ \times 6.6 \\ \hline \end{array}$$

(3)积保留两位小数。

$0.78 \times 2.9 \approx (\quad)$

$$\begin{array}{r} 0.78 \\ \times 2.9 \\ \hline 702 \\ 156 \\ \hline 2.262 \end{array}$$

↑千分位不足( ),应( )。

$0.92 \times 0.46 \approx$

$$\begin{array}{r} 0.92 \\ \times 0.46 \\ \hline \end{array}$$





### 整数乘法运算定律推广到小数(1)

用简便方法计算下面各题。

$$\begin{aligned} & 0.125 \times (7.8 \times 0.8) \\ &= 7.8 \times (\square \times \square) \\ &= 7.8 \times \square \\ &= \end{aligned}$$

$$\begin{aligned} & 2.5 \times 23 \times 0.4 \\ &= \square \times \square \times 23 \\ &= \square \times 23 \\ &= \end{aligned}$$

$$\begin{aligned} & 12.5 \times 3.2 \times 0.25 \\ &= 12.5 \times 4 \times 0.8 \times 0.25 \\ &= (\square \times \square) \times (\square \times \square) \\ &= \\ &= \end{aligned}$$

$$\begin{aligned} & 1.6 \times 7.5 \times 1.25 \\ &= 0.8 \times 2 \times 7.5 \times 1.25 \\ &= (\square \times \square) \times (\square \times \square) \\ &= \\ &= \end{aligned}$$

$$0.25 \times 13 \times 8$$

$$9.8 \times 0.4 \times 2.5$$

$$0.25 \times 1.25 \times 4 \times 8$$

$$1.25 \times 8.8$$





### 整数乘法运算定律推广到小数(2)

用简便方法计算下面各题。

$$\begin{aligned}
 &0.87 \times 101 \\
 &= 0.87 \times (100 + 1) \\
 &= 0.87 \times \square + 0.87 \times \square \\
 &= \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 &4.76 \times 9.9 \\
 &= 4.76 \times (10 - 0.1) \\
 &= 4.76 \times \square - 4.76 \times \square \\
 &= \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 &3.6 \times 9.7 + 9.7 \times 0.4 \\
 &= 9.7 \times (\square + \square) \\
 &= \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 &1.25 \times (8 - 0.8) \\
 &= 1.25 \times \square - \square \times 0.8 \\
 &= \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 &9.8 \times 2.5 \\
 &= \\
 &= \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 &5.68 \times 99 + 5.68 \\
 &= \\
 &= \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 &3.6 \times 0.19 + 0.81 \times 3.6 \\
 &= \\
 &= \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 &1.12 \times 2.5 - 0.12 \times 2.5 \\
 &= \\
 &= \\
 &=
 \end{aligned}$$





## 整数乘法运算定律推广到小数(3)

计算下面各题。

$$\begin{aligned} & 30.6 \times 1.7 - 0.7 \\ = & \square - 0.7 \\ = & \square \end{aligned}$$

$$\begin{aligned} & 2.35 + 3.67 \times 0.4 \\ = & 2.35 + \square \\ = & \square \end{aligned}$$

$$\begin{aligned} & 3.4 \times 7 \times 1.2 \\ = & \square \times 1.2 \\ = & \square \end{aligned}$$

$$\begin{aligned} & 5 - 0.15 \times 0.2 \\ = & 5 - \square \\ = & \square \end{aligned}$$

$$\begin{aligned} & 54.9 + 0.76 - 23.4 \\ = & \\ = & \end{aligned}$$

$$\begin{aligned} & 0.24 \times 0.07 + 0.33 \\ = & \\ = & \end{aligned}$$

$$\begin{aligned} & (2.78 - 0.35) \times 1.54 \\ = & \\ = & \end{aligned}$$

$$\begin{aligned} & 20 \times 3.64 \times 0.9 \\ = & \\ = & \end{aligned}$$

$$\begin{aligned} & 8.9 - 3.27 \times 0.24 \\ = & \\ = & \end{aligned}$$

$$\begin{aligned} & 5.42 \times (0.32 + 0.29) \\ = & \\ = & \end{aligned}$$





## 技巧练习 1

用简便方法计算下面各题。

$$0.72 \times 8.9 + 7.2 \times 0.11$$

方法一：

$$\begin{aligned} \text{原式} &= 7.2 \times \square + 7.2 \times 0.11 \\ &= 7.2 \times (\square + 0.11) \\ &= \\ &= \end{aligned}$$

方法二：

$$\begin{aligned} \text{原式} &= 0.72 \times 8.9 + 0.72 \times \square \\ &= 0.72 \times (8.9 + \square) \\ &= \\ &= \end{aligned}$$

$$3.64 \times 10.1 - 36.4$$

$$\begin{aligned} &= 3.64 \times 10.1 - 3.64 \times \square \\ &= 3.64 \times (\square - \square) \\ &= \\ &= \end{aligned}$$

$$17.48 \times 37 - 174.8 \times 1.9 + 17.48 \times 82$$

$$\begin{aligned} &= 17.48 \times 37 - 17.48 \times \square + 17.48 \times 82 \\ &= 17.48 \times (\square - \square + \square) \\ &= \\ &= \end{aligned}$$

$$172.4 \times 6.2 + 1724 \times 0.38$$

$$\begin{aligned} &= \\ &= \\ &= \\ &= \end{aligned}$$

$$5.55 \times 445 + 55.5 \times 56.5 - 55.5$$

$$\begin{aligned} &= \\ &= \\ &= \\ &= \end{aligned}$$

