

# Multiplying Decimals

This module will teach you how to multiply decimals up to 2 decimal places by 1 to 2-digit whole numbers. You will learn how to multiply decimals like whole numbers and then count the number of decimal places in the factors.

# Multiplying Decimals

1

## Multiply Like Whole Numbers

Ignore the decimal points and multiply as you would with whole numbers.

2

## Count Decimal Places

The product will have the same number of decimal places as the sum of the decimal places in the factors.

3

## Place Decimal Point

Count from right to left and place the decimal point in the product.

# Example: Finding the Perimeter

## Step 1: Multiply

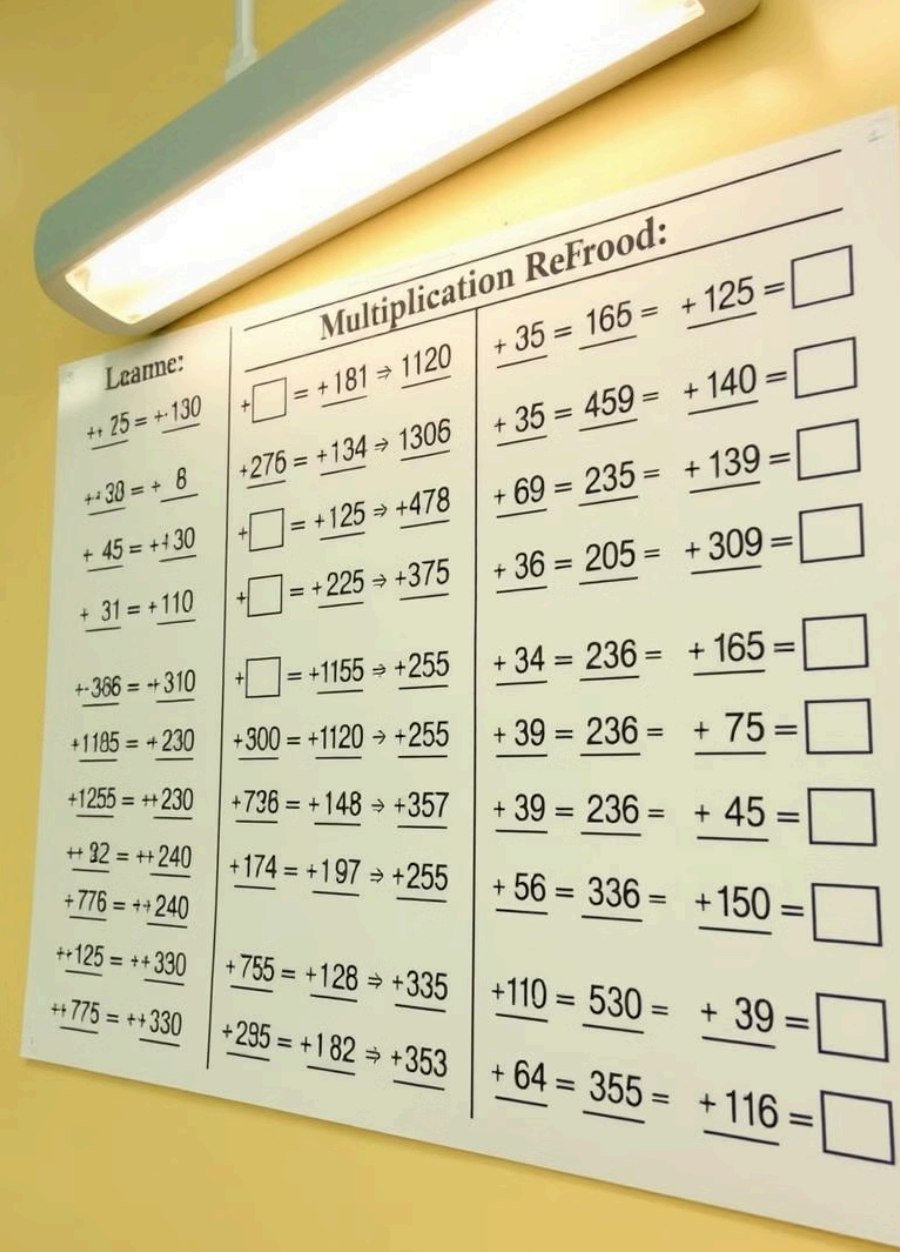
Multiply 3.2 by 4 as you would with whole numbers.

## Step 2: Count Decimal Places

There is one decimal place in 3.2 and zero decimal places in 4.

## Step 3: Place Decimal Point

The product will have one decimal place. Count from right to left and place the decimal point.

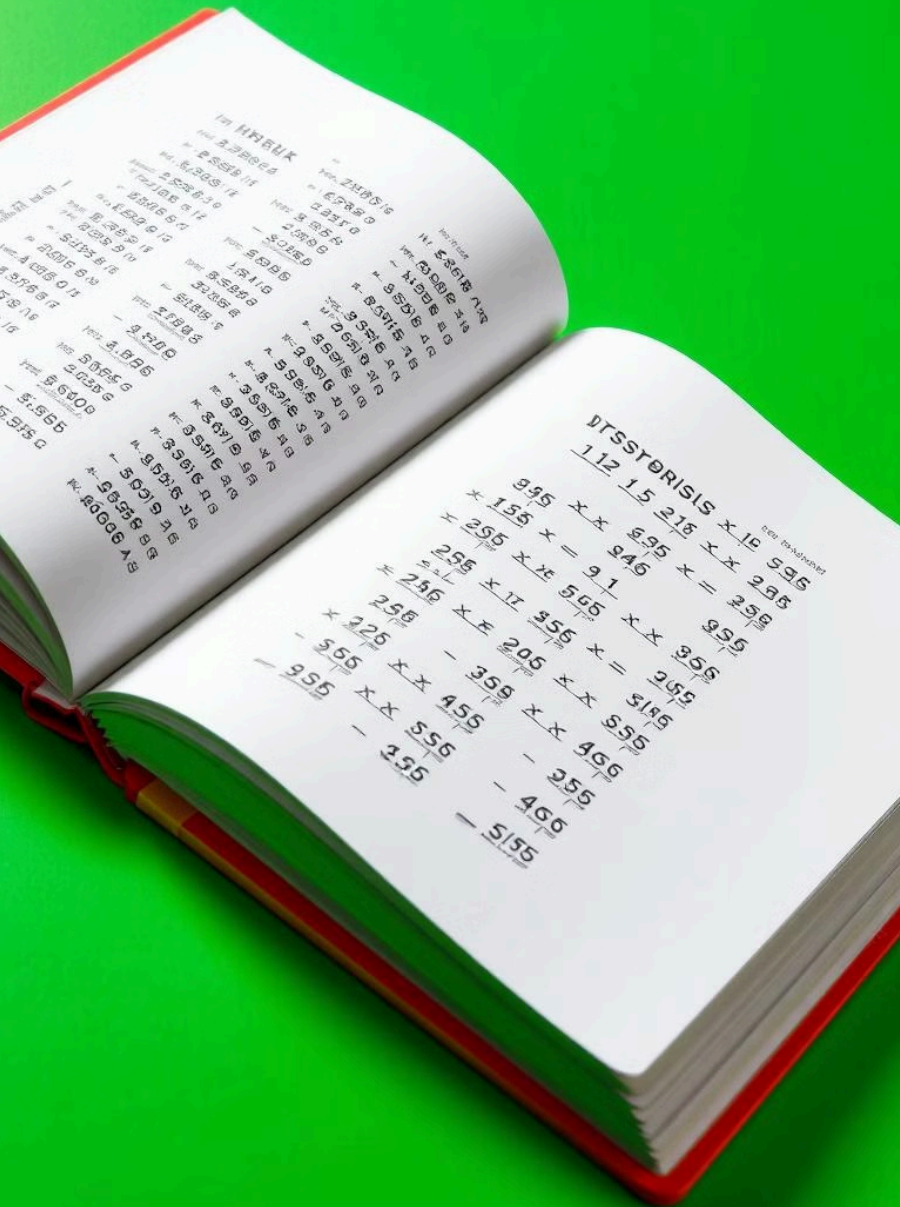


# Practice Activity

What is 2.54 multiplied by 12?	30.48
What is the product of 5 and 7.98?	39.9
What is 21.4 times 7?	149.8
What is the product of 3 and 8.92?	26.76
What is 1.11 multiplied by 11?	12.21

# Independent Activity 2

1	<b>Carina's Cupcakes</b> 2 cupcakes at Php12.43 each.
2	<b>Comic Book Sales</b> 13 comic books sold at Php10.45 each.
3	<b>Jayson's Jogging</b> 1.45 miles per day for 5 days.
4	<b>Luisa's Berry Juice</b> 6 packs of berry juice at Php23.34 each.
5	<b>Joel's Yarn</b> 4 pieces of yarn measuring 9.43 m each.
6	<b>Grace's Hairclips</b> 4 pairs of hairclips at Php13.65 each.
7	<b>Mother's Cakes</b> 3 cakes needing 1.75 kg of flour each.



## Additional Activities



# Missing Numbers

If  $637 \times 18 = 10276$ , what is the product of  $63.7 \times 18$ ?



## Missing Numbers

If  $361 \times 6 = 1141$ , what is  $3.61 \times 6$  equal to?



# What's More

1

## Carina's Cupcakes

Carina buys 2 cupcakes at Php12.43 each.

2

## Comic Book Sales

Thirteen out of 15 comic books were sold at Php10.45 each.

3

## Jayson's Jogging

Jayson jogs 1.45 miles a day. In a week, he jogged for 5 days.

4

## Luisa's Berry Juice

Luisa bought 6 packs of berry juice. Each pack of berry juice cost Php23.34.

5

## Joel's Yarn

Joel has 4 pieces of yarn which measures 9.43 m each.

6

## Grace's Hairclips

Grace wants to buy 4 pairs of hairclip at Php13.65 each.

7

## Mother's Cakes

Mother baked 3 round chocolate moist cake. Each cake needs 1.75 kg of flour.

# Math Hatth

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$\frac{15-22}{1 \times 2} = \frac{2150}{-3}$	$\frac{27-14}{1 \times 23} = \frac{510}{-13} \times = \frac{987}{-x1}$	$\frac{15:06}{-x1} = \boxed{15}$
$\frac{26-25}{31 \times -10} = \frac{996}{-x1}$	$\frac{55-39}{16 \times -13} = \frac{506}{-18} \times = \frac{325}{-19}$	$\frac{894}{3 \times 14} = \frac{1140}{2 \times 33}$
$\frac{75-47}{-31 \times -44} = \frac{518}{-1 \times 9}$	$\frac{53-55}{25 \times -14} = \frac{625}{-x30} \times = \frac{858}{-11}$	$\frac{4.8.9}{3 \times 11} = \frac{1135}{-x22}$
$\frac{36-23}{76 \times -20} = \frac{1331}{11-4}$	$\frac{36-39}{77-19} = \frac{525}{320} \times = \frac{615}{-20}$	$\frac{8.91}{5-12} = \frac{1169}{4-26}$
$\frac{38-35}{-2 \times -31} = \frac{38-8}{-12 \times -19}$	$\frac{36-49}{-12 \times -19} = \frac{106}{-15} \times = \frac{325}{-16}$	$\frac{81.5}{4 \times 10} = \boxed{1}$
$16-7 = 1100$	$54-9 = 125 \times = 125$	$15.6 = \boxed{15}$

$$0.16 \times 4 = 0.64$$

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$1+1 = 1+3 = 2-2 = 1+3$ $1.14 = > \underline{2875} = \underline{2.15} = = \underline{4.116}$	$>35 = \overset{+2}{\underline{1305}} = x = \square \quad x = \square$
$1.26 = > 7.05 = 3677 = = 3.+5$ $1.12 = > \underline{2.75} = \underline{2330} = = 4,3.6$	$>95 = 3.66 = x = \square \quad x = \square$ $>\underline{95}$
$1.+ \underline{1} = > \underline{1+0} = \underline{8.40} = = \underline{38+6}$	$>\underline{95} = \underline{8.26} = x = \square$
$2.15 = > 1+5 + 3,37 = = 68+6$	$>35 = 4.56 = x = \square \quad > = \square$
$\underline{2.55} = > \underline{4+25} + \underline{2425} = = \underline{11+6}$	$>25 = \underline{6.45} = x = \square \quad > = \square$
$\underline{2.27} = > \underline{x171} + \underline{6335} = = \underline{12+6}$	$>\underline{95} = \underline{3.45} = x = \underline{1.20}$
$3.36 = > x12 = 4376 = = \_,+5$	

$$3.21 \times 8 = 25.68$$

## Probells for.. Primpict Math

$$\begin{array}{l}
 36+17+ = 91+ = 13+16 = 5+15 = 19+14 = 355+ = 15+ = 35+28 = 16 \\
 28+13+ = 36+ > 26-3+ = 15-13 = 23+38 = 25.15+ = 18+ = 183+35 = 174 \\
 \frac{18+64}{20+17+} = \frac{15\pm}{1376} = \frac{15+16}{16+7\pm} > \frac{15314}{16314} = \frac{16+65}{25+15+} > \frac{10.15+}{15.75+} = \frac{15}{156} = \frac{115+26}{(87+14)+} = \frac{113}{157+} \\
 \frac{15+35}{24+17+} = \frac{3378}{143} = \frac{16+8+}{35+75} > \frac{13+15}{23+} = \frac{23+13}{36-25} = \frac{13.15+}{15.16+} = \frac{155}{55} = \frac{13+155-}{25+167-} = \frac{154}{145} \\
 \frac{22+18+}{56 \ 229} > \frac{135}{1515} = \frac{14+5}{66 \ 30} > \frac{158+}{36.17} > \frac{18+13+}{53 \ 331} > \frac{2316+}{358} > \frac{38+}{325} > \frac{35+180+}{36+185} > \frac{197}{334} \\
 \frac{34+13}{34 \ 138} = \frac{397}{6328} = \frac{23-15+}{66 \ 30} = \frac{134}{55.76} = \frac{39+13}{30 \ 356} > \frac{3364+}{150} = \frac{25+}{355} = \frac{25+109}{39+138} = \frac{32}{355}
 \end{array}$$

$$61.75 \times 6 = 370.50$$

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