

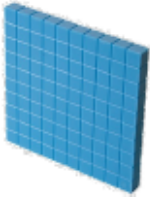



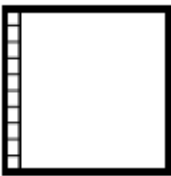
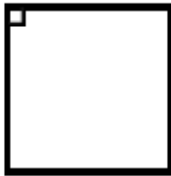
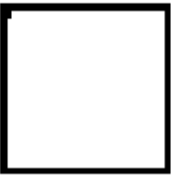
L.O. To multiply decimal numbers.

Today, we are going to look at multiplying decimals by whole numbers. The first set of questions need you to multiply by 10, 100 and 1000 so we need to think back to our lesson on Monday to think about how place value can help us with calculating the answers to these questions.

Please watch this clip to revise this lesson:

[Multiplying and Dividing by 10 100 1000](#)

As before, please use the place value chart below if you need to, to help you work out the answers.

 Hundreds	 Tens	 Ones	 Decimal Point	 tenths	 hundredths	 thousandths

The second set of questions needs you to multiply the decimals using the method of short multiplication. The poster below shows you how to lay out this working out. The process is the same, just remember to look after your **pet decimal point**, it needs to be put into the answer box in **the same column** as the one in the question.

Make sure your decimal point is nice and clear in your answer - it is **a point pet that needs to be seen!**

(Please take care it doesn't look like a comma - we definitely don't have commas as pets - they are truly vicious forms of punctuation!!!)



(Just note that we tend to carry over underneath the answer box, this poster shows the carry over above the calculation - just carry over as you would normally.)

Multiplying Decimals by Whole Numbers

1

$$\begin{array}{r} 3.45 \\ \times 6 \\ \hline \end{array}$$

Write the numbers above each other in the correct columns.

2

$$\begin{array}{r} 3 \\ 3.45 \\ \times 6 \\ \hline 0 \end{array}$$

Multiply the hundredths digit in the decimal number by the one-digit number. 5 hundredths \times 6 ones = 30 hundredths = 3 tenths and 0 hundredths. Write 0 in the answer section and regroup the 3 tenths by writing 3 above the tenths column.

3

$$\begin{array}{r} 23 \\ 3.45 \\ \times 6 \\ \hline 70 \end{array}$$


Multiply the tenths digit in the decimal number by the one-digit number and add any regrouped tenths. 4 tenths \times 6 ones = 24 tenths + 3 tenths = 27 tenths = 2 ones and 7 tenths. Write 7 in the answer section and regroup the 2 ones by writing 2 above the ones column. Write the answer in the provided section.

4

$$\begin{array}{r} 23 \\ 3.45 \\ \times 6 \\ \hline 20.70 \end{array}$$

Multiply the ones digit in the decimal number by the one-digit number and add any regrouped ones. 3 ones \times 6 ones = 18 ones + 2 ones = 20 ones = 2 tens and 0 ones. Write the answer in the provided section.

5 **$3.45 \times 6 = 20.70$**



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