

INSTRUCTIONS: Choose 1 one of the tasks which matches your ability. Remember to challenge yourself.

LI... To multiply numbers with decimals.

SC... I can use my knowledge of Place Value.

I can put the decimal point in the right place.

I can use my knowledge of multiplication facts.

Please watch the video below before moving on to the task

<https://www.youtube.com/watch?v=BAwkn4hGGyg>

**Multiplying Decimals**

$6 \times 3.7$

Ignore the decimal point and multiply...

$6 \times 37 = 222$

Count how many decimal places were in the question and put the decimal point back in...

$6 \times 3.7 = 22.2$

MILD

1)  $7.3 \times 5$

2)  $2.7 \times 4$

3)  $5.3 \times 8$

4)  $9.1 \times 3$

5)  $12.3 \times 4$

6)  $2.5 \times 7$

7)  $3.1 \times 5$

8)  $6.8 \times 4$

9)  $5.4 \times 7$

10)  $10.6 \times 4$

To check your answers, please use a calculator.

HOT

1)  $34.23 \times 7$

2)  $74.83 \times 3$

3)  $83.92 \times 4$

4)  $84.72 \times 8$

5)  $54.48 \times 5$

6)  $47.32 \times 7$

7)  $57.83 \times 6$

8)  $27.47 \times 9$

9)  $38.72 \times 4$

10)  $47.32 \times 7$

11)  $38.28 \times 3$

12)  $45.74 \times 6$

13)  $577.38 \times 3$

14)  $938.47 \times 5$

To check your answers, please use a calculator.

**SPICY**

Multiplying 3-Digit by 2-Digit Numbers with Various Decimal Places (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Calculate each product.

$$\begin{array}{r} 68.2 \\ \times 8.4 \\ \hline \end{array}$$

$$\begin{array}{r} 630 \\ \times 1.2 \\ \hline \end{array}$$

$$\begin{array}{r} 16.0 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 5.52 \\ \times 0.25 \\ \hline \end{array}$$

$$\begin{array}{r} 32.3 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 7.91 \\ \times 0.19 \\ \hline \end{array}$$

$$\begin{array}{r} 26.3 \\ \times 7.8 \\ \hline \end{array}$$

$$\begin{array}{r} 3.07 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 63.2 \\ \times 8.5 \\ \hline \end{array}$$

$$\begin{array}{r} 0.394 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 55.8 \\ \times 9.4 \\ \hline \end{array}$$

$$\begin{array}{r} 596 \\ \times 3.6 \\ \hline \end{array}$$

$$\begin{array}{r} 940 \\ \times 8.2 \\ \hline \end{array}$$

$$\begin{array}{r} 203 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 0.707 \\ \times 0.97 \\ \hline \end{array}$$

$$\begin{array}{r} 906 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 310 \\ \times 1.8 \\ \hline \end{array}$$

$$\begin{array}{r} 520 \\ \times 0.92 \\ \hline \end{array}$$

$$\begin{array}{r} 131 \\ \times 0.41 \\ \hline \end{array}$$

$$\begin{array}{r} 6.00 \\ \times 5.1 \\ \hline \end{array}$$

$$\begin{array}{r} 0.913 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} 12.8 \\ \times 3.8 \\ \hline \end{array}$$

$$\begin{array}{r} 52.2 \\ \times 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.394 \\ \times 76 \\ \hline \end{array}$$

$$\begin{array}{r} 0.411 \\ \times 0.35 \\ \hline \end{array}$$

To check your answers, please use a calculator.

## Extension task

# Chapter 4

## Decimals

### Multiplication of Decimals by multiples of 10, 100, 1000

Remember :-

If you multiply by 10, move all the figures **ONE** place **LEFT**  
(or move the point one place right).

If you multiply by 100, move all the figures **TWO** places **LEFT**  
(or move the point two places right).

If you multiply by 1000, move all the figures **THREE** place **LEFT**  
(or move the point three places right).

Be able to multiply any decimal number by a multiple of 10, 100 or 1000

Learn the following rules :-

To multiply by 20 => multiply by 10 then times by 2.

To multiply by 300 => multiply by 100 then times by 3.

To multiply by 4000 => multiply by 1000 then times by 4.

### Exercise 1

1. Copy and complete each sentence :-

- a To multiply by 60 you would multiply by 10 then times by .....
- b To multiply by 800 you would multiply by .... then times by .....
- c To multiply by 9000 you would multiply by .....
- d To multiply by 70 .....

2. Copy and complete using the rules above :-

a  $1.32 \times 20 =$

$\begin{array}{r} 1.32 \\ \times 10 \\ \hline 13.2 \end{array}$	→	$\begin{array}{r} 13.2 \\ \times 2 \\ \hline \dots\dots \end{array}$
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b  $12.213 \times 300$

$\begin{array}{r} 12.213 \\ \times 100 \\ \hline 1221.3 \end{array}$	→	$\begin{array}{r} \dots\dots \\ \times 3 \\ \hline \dots\dots \end{array}$
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c  $1.1234 \times 2000$

$\begin{array}{r} 1.1234 \\ \times 1000 \\ \hline \dots\dots \end{array}$	→	$\begin{array}{r} \dots\dots \\ \times 2 \\ \hline \dots\dots \end{array}$
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d  $1.631 \times 400$

$\begin{array}{r} 1.631 \\ \times 100 \\ \hline \dots\dots \end{array}$	→	$\begin{array}{r} \dots\dots \\ \times 4 \\ \hline \dots\dots \end{array}$
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3. Find :-

- |                       |                        |                       |
|-----------------------|------------------------|-----------------------|
| a $13.23 \times 40$   | b $14.12 \times 60$    | c $3.951 \times 90$   |
| d $437.6 \times 50$   | e $23.13 \times 200$   | f $245.3 \times 700$  |
| g $1.048 \times 900$  | h $0.076 \times 800$   | i $0.073 \times 2000$ |
| j $10.97 \times 5000$ | k $0.0078 \times 9000$ |                       |

SPICY Answers

**Chapter 4 - Exercise 1 (page 38)**

1. a 6      b 100,8    c 1000,9    d 10,7
2. a 26·4    b 3663·9    c 2246·8    d 652·4
3. a 529·2    b 847·2    c 355·59  
d 21880    e 4626    f 171710    g 943·2  
h 60·8    i 146      j 54850    k 70·2