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

## **Multiplying Decimals**

6 x 3.7

Ignore the decimal point and multiply...

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

### MILD

To check your answers, please use a calculator.

#### **HOT**

- 1) 34.23 × 7
- 2) 74.83 × 3
- 3)  $83.92 \times 4$
- 4) 84.72 × 8
- 5) 54.48 × 5
- 6) 47.32 x 7
- 7) 57.83 x 6
- 8) 27.47 x 9
- 9) 38.72 x 4
- 10)47.32 × 7
- $11)38.28 \times 3$
- 12)45.74 × 6
- 13)  $577.38 \times 3$
- 14)938.47 x 5

To check your answers, please use a calculator.

#### <u>SPICY</u>

24 1.1 1 1	0.01.1.1	0.01 1.37 1	1.1 77 1	5 1 1	D1 (	
Multiplying	3-Digit by	v 2-Digit Numb	ers with Variou	s Decimal	Places (A	A)

Name:

Date:

Calculate each product.

$$630 \times 1.2$$

$$\times$$
 36

$$5.52 \times 0.25$$

$$32.3$$
  $\times$  26

$$7.91 \times 0.19$$

$$3.07 \times 19$$

$$0.394 \times 70$$

$$\begin{array}{c} 940 \\ \times 8.2 \end{array}$$

$$203 \times 42$$

$$0.707 \times 0.97$$

$$\begin{array}{c} 310 \\ \times 1.8 \end{array}$$

$$\begin{array}{c} 131 \\ \times \, 0.41 \end{array}$$

$$\begin{array}{c} 6.00 \\ \times 5.1 \end{array}$$

$$0.913$$
 $\times$  56

$$12.8$$
  $\times$   $3.8$ 

$$52.2$$
 $\times$   $2.3$ 

$$\begin{array}{r} 0.394 \\ \times \phantom{00} 76 \end{array}$$

$$0.411 \times 0.35$$

To check your answers, please use a calculator.

#### Extension task

# Chapter 4



#### 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 :-

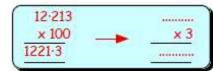
To multiply by 20 => multiply by 10 then times by 2.

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

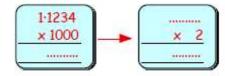
To multiply by 4000 => multiply by 1000 then times by 4.

#### Exercise 1

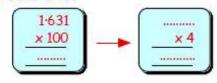
- Copy and complete each sentence :-
  - To multiply by 60 you would multiply by 10 then times by .......
  - To multiply by 800 you would multiply by ..... then times by ......
  - c To multiply by 9000 you would multiply by .....
  - d To multiply by 70
- Copy and complete using the rules above :
  - a 1.32 x 20 =
    - 1·32 × 10 13·2 × 2 ......
- b 12·213 x 300



c 1.1234 x 2000



d 1.631 x 400



- 3. Find :-
- a 13.23 x 40
- b 14·12 x 60
- 3.951 x 90

- d 437.6 x 50
- 23·13 x 200
- f 245·3 x 700
- 1.048 x 900

- h 0.076 x 800
- 0.073 x 2000
- 10·97 x 5000
- k 0.0078 x 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 ε 4626 f 171710 g 943·2
h 60·8 i 146 j 54850 k 70·2
```