Tuesday 16th June

Welcome y6 we are moving back to decimal calculations today. Think slider where it helps!

Go to white rose y6 summer week 5 lesson 1 to watch the video before completing the worksheet below:

Multiply by 10, 100 and 1,000

1 Complete the calculations and sentences.

Use place value counters to help you.

Th	H	T	O	Tth	Hth
			●●	●●	
			●		

a) 2.3 × 10 = ☐

When the number is multiplied by 10 the counters move ☐ place to the left.

b) 2.3 × 100 = ☐

When the number is multiplied by 100 the counters move ☐ places to the left.

c) 2.3 × 1,000 = ☐

When the number is multiplied by 1,000 the counters move ☐ places to the left.

2 Complete the diagram.

3.06 →(× 10)→ ☐ →(× 10)→ ☐

3 a) Draw counters on the place value charts to represent each calculation.

4.4 × 1

Th	H	T	O	Tth	Hth

4.4 × 10

Th	H	T	O	Tth	Hth

4.4 × 100

Th	H	T	O	Tth	Hth

4.4 × 1,000

Th	H	T	O	Tth	Hth

b) Complete the calculations.

4.4 × 1 = ☐

4.4 × 10 = ☐

4.4 × 100 = ☐

4.4 × 1,000 = ☐

What do you notice?

4 Complete the calculations.

a) $13.44 \times 10 = $ [ ]

d) $4.4 \times$ [ ] $= 4{,}400$

b) $41.4 \times 100 = $ [ ]

e) [ ] $= 1.03 \times 100$

c) $0.415 \times 1{,}000 = $ [ ]

f) $30.44 = $ [ ] $\times 10$

Now search for multiply divide decimals by 10,100.1000 by quizziz.com to do the multiple choice quiz

Then practise multiplication/division skills on topmarks

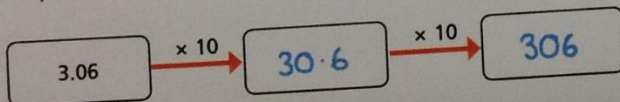Scroll down for answers..

Multiply by 10, 100 and 1,000

1 Complete the calculations and sentences.

Use place value counters to help you.

Th	H	T	O	Tth	Hth
			●●	●●	
				●	

a) $2.3 \times 10 =$ **23**

When the number is multiplied by 10 the counters move **1** place to the left.

b) $2.3 \times 100 =$ **230**

When the number is multiplied by 100 the counters move **2** places to the left.

c) $2.3 \times 1,000 =$ **2,300**

When the number is multiplied by 1,000 the counters move **3** places to the left.

2 Complete the diagram.

3.06 → **× 10** → **30·6** → **× 10** → **306**

3 a) Draw counters on the place value charts to represent each calculation.

4.4×1

Th	H	T	O	Tth	Hth
			●● ●●	●● ●●	

4.4×10

Th	H	T	O	Tth	Hth
			●● ●●	●● ●●	

4.4×100

Th	H	T	O	Tth	Hth
			●● ●●	●● ●●	

$4.4 \times 1,000$

Th	H	T	O	Tth	Hth
			●● ●●	●● ●●	

b) Complete the calculations.

$4.4 \times 1 =$ **4·4**

$4.4 \times 10 =$ **44**

$4.4 \times 100 =$ **440**

$4.4 \times 1,000 =$ **4,400**

What do you notice?

4 Complete the calculations.

a) 13.44 × 10 = 134.4

b) 41.4 × 100 = 4,140

c) 0.415 × 1,000 = 415

d) 4.4 × 1,000 = 4,400

e) 103 = 1.03 × 100

f) 30.44 = 3.044 × 10