

MULTIPLY BY 10, 100
AND 1,000



GET READY



1) $32 \times 10 =$

$$32 \times 100 =$$

$$32 \times 1,000 =$$

2)  $\times 100 =$

[illegible]

1) $32 \times 10 = 320$

$$32 \times 100 = 3,200$$

$$32 \times 1,000 = 32,000$$

2)  $\times 100 = 12,100$

[illegible]

LET'S LEARN



100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

Which counter has the highest value?

How many times greater is the red counter compared to the blue counter?

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

$\times 10$

$$0.3 \times 10 = 3$$

Have a think



100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

$$0.5 \times 10 \times 10 = 50$$

$$0.5 \times 100 = 50$$

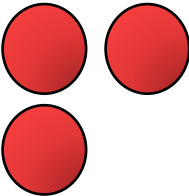
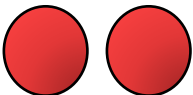
$$0.6 \times 1,000 = 600$$

Have a think



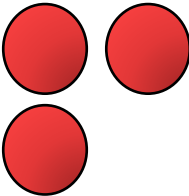
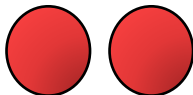
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

$$3.12 \times 10 = 31.2$$

Th	H	T	O	•	tth	hth
				•		
			3	•	1	2

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

$$3.12 \times 100 = 312$$

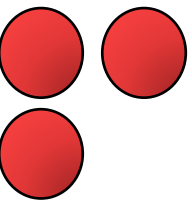
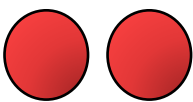
Th	H	T	O	•	tth	hth
				•		
			3	•	1	2

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

$$3.12 \times 1,000 = 3,120$$

Have a think



Th	H	T	O	•	tth	hth
						
			0	•	1	2

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



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

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

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

YOUR TURN

Have a go at questions
1 - 4 on the worksheet



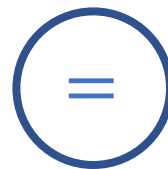
Use $>$, $<$ or $=$ to complete the sentences

$$7.2 \times 10 \times 10$$
$$7.2 \times 100$$



$$7.2 \times 1,000$$

$$7.2 \times 100 \times 10$$
$$7.2 \times 1,000$$



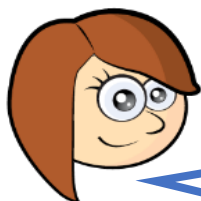
$$7.2 \times 1,000$$

Have a think



$$4.2 \times 200$$

Have a think



Rosie

You could do
 $4.2 \times 100 \times 2$



Amir

I disagree, there are two hundreds so
it would be
 $4.2 \times 100 \times 100$



Dora

I think it'd be
 $4.2 \times 2 \times 100$

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

$$4.2 \times 100 \times 2 = 840$$

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

$$4.2 \times 100 \times 2 = 840$$

$$4.2 \times 2 \times 100 = 840$$

10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

$$4.2 \times 100 \times 100 = 42,000$$

YOUR TURN

Have a go the rest of the
questions on the
worksheet

