Wednesday 17th June

Welcome y6 we are going to complete our white rose lesson one decimal calculations today. Think slider where it helps!

Go to white rose y6 summer week 5 lesson 1 to watch the video again (==if you feel you need to==) before completing the worksheet below:
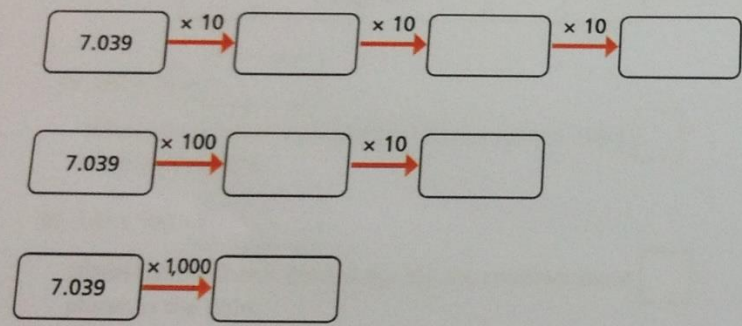
You should have already completed question 4 so ==start at question 5== today unless you need to finish off from yesterday.

**4** Complete the calculations.

a) $13.44 \times 10 = \boxed{\phantom{xx}}$

b) $41.4 \times 100 = \boxed{\phantom{xx}}$

c) $0.415 \times 1,000 = \boxed{\phantom{xx}}$

d) $4.4 \times \boxed{\phantom{xx}} = 4,400$

e) $\boxed{\phantom{xx}} = 1.03 \times 100$

f) $30.44 = \boxed{\phantom{xx}} \times 10$

**5** Complete the diagrams.

$\boxed{7.039} \xrightarrow{\times 10} \boxed{\phantom{xx}} \xrightarrow{\times 10} \boxed{\phantom{xx}} \xrightarrow{\times 10} \boxed{\phantom{xx}}$

$\boxed{7.039} \xrightarrow{\times 100} \boxed{\phantom{xx}} \xrightarrow{\times 10} \boxed{\phantom{xx}}$

$\boxed{7.039} \xrightarrow{\times 1,000} \boxed{\phantom{xx}}$

What do you notice? Why does this happen?

_____

_____

_____

**6** Write >, < or = to compare the number sentences.

$1.4 \times 10 \times 10 \times 10$ ◯ $1.4 \times 1,000$

$1.4 \times 10 \times 100$ ◯ $1.4 \times 1,000$

$1.4 \times 10 \times 10$ ◯ $1.4 \times 1,000$

$1.4 \times 10 \times 2$ ◯ $1.4 \times 100$

**7** Kim is calculating $14.3 \times 200$

She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

_____

_____

_____

**8** Use the cards to complete the calculation.

You can use each card more than once.

$\boxed{\times 1} \quad \boxed{\times 10} \quad \boxed{\times 100} \quad \boxed{\times 1,000}$

$0.002 \boxed{\phantom{xx}} \boxed{\phantom{xx}} \boxed{\phantom{xx}} = 2,000$

How many ways is it possible to complete this calculation?

Talk about it with a partner.

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Scroll down for answers  then  search for  <span style="color:red">who wants to be a millionaire  great maths teaching ideas x10 x100 x1000</span>

**As  this  is  a  powerpoint  you  say  or  write down the question then scroll to next slide to find the answer and the prize amount.**

**4** Complete the calculations.

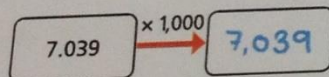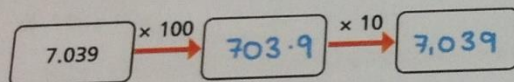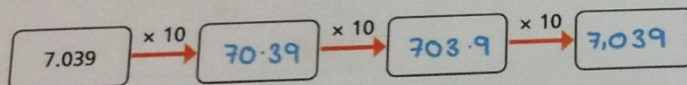a) $13.44 \times 10 = \boxed{134.4}$

b) $41.4 \times 100 = \boxed{4,140}$

c) $0.415 \times 1,000 = \boxed{415}$

d) $4.4 \times \boxed{1,000} = 4,400$

e) $\boxed{103} = 1.03 \times 100$

f) $30.44 = \boxed{3.044} \times 10$

**5** Complete the diagrams.

$$7.039 \xrightarrow{\times 10} \boxed{70.39} \xrightarrow{\times 10} \boxed{703.9} \xrightarrow{\times 10} \boxed{7,039}$$

$$7.039 \xrightarrow{\times 100} \boxed{703.9} \xrightarrow{\times 10} \boxed{7,039}$$

$$7.039 \xrightarrow{\times 1,000} \boxed{7,039}$$

What do you notice? Why does this happen?

They all give the same final answer because
$10 \times 10 \times 10 = 100 \times 10 = 1,000$

**6** Write >, < or = to compare the number sentences.

$1.4 \times 10 \times 10 \times 10 \boxed{=} 1.4 \times 1,000$

$1.4 \times 10 \times 100 \boxed{=} 1.4 \times 1,000$

$1.4 \times 10 \times 10 \boxed{<} 1.4 \times 1,000$

$1.4 \times 10 \times 2 \boxed{<} 1.4 \times 100$
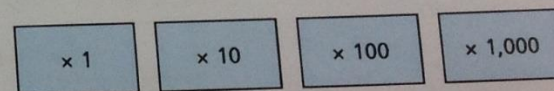
**7** Kim is calculating $14.3 \times 200$

She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

She has multiplied by 2 and added two zeros. She hasn't considered the place value of each digit. $14.3 \times 200 = 2860$

**8** Use the cards to complete the calculation.

You can use each card more than once.

$$\boxed{\times 1} \quad \boxed{\times 10} \quad \boxed{\times 100} \quad \boxed{\times 1,000}$$

E.g. $0.002 \boxed{\times 10} \boxed{\times 100} \boxed{\times 1,000} = 2,000$

How many ways is it possible to complete this calculation?

Talk about it with a partner.