

Monday 18th January 2021

L.I. Can I use related calculations?

Watch the video on related calculations

<https://whiterosemaths.com/homelearning/year-3/week-1-number-multiplication-division/>

Now answer the questions on today's activity sheet.

Nijah makes these arrays.



Look at these 2 groups. Can you see how they are similar and how they are different?

One array is using 1 counter. The other group is an array using 10 counters.

The arrays have the same rows and columns.

The first array



shows $4 \times 3 = 12$

But the second array



shows $40 \times 3 = 120$

Can you see how these are related?

How could we use the first array to help us to answer the second array?

The counters in the second array are ten times greater than the ones in the first array.

Therefore, the answer will be 10 times bigger.

Now try these...

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Complete the multiplication facts.

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The number pieces represent $5 \times \text{___} = \text{___}$

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1010

1010

1010

1010

If each hole is worth ten, what do the pieces represent?

If we know $2 \times 6 = 12$, we also know $2 \times 60 = 120$
Use this to complete the fact family.


$2 \times 60 = 120$	$\square \times \square = \square$
$\square \div \square = \square$	$\square \div \square = \square$

Complete the fact families for the calculations.

$3 \times 30 = \square$

$\square = 4 \times 80$

$160 \div 2 = \square$



I know
 $5 \times 7 = 35$

Use Dora's fact to complete the calculations.

a) $5 \times 70 = \square$

b) $7 \times 5 = \square$

c) $50 \times 7 = \square$

d) $35 \div 5 = \square$

e) $350 \div 5 = \square$

f) $350 \div 7 = \square$

Complete the number sentences.

a) $3 \times \square = 210$

b) $240 \div 6 = \square$

c) $4 \times 90 = \square$

d) $120 \div \square = 2$