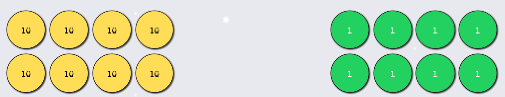


To be able to solve related calculations

**MathShed**

**Starter:**  
What's the same? What's different?




Explain your answer.

To be able to solve related calculations

**MathShed**

**Activity 1:**  
Complete the multiplication sentences beneath the representations below.




x  =

x  =

To be able to solve related calculations

**MathShed**

**Activity 2:**  
The Numicon shapes below represent (complete the number sentence below).



x 5 =

If each circle was filled by a 10 place value counter, what would the number sentence be now?

x  =

To be able to solve related calculations

**MathShed**

**Activity 3:**  
If we know that:

6 x  3 =  18

then we know that:

6 x  =

Now, complete the table below:

6 x <input type="text"/>	= <input type="text"/>	<input type="text"/> x 30 = <input type="text"/>
18 ÷ 3 = <input type="text"/>	180 ÷ <input type="text"/> = <input type="text"/>	
<input type="text"/> ÷ 6 = <input type="text"/>	<input type="text"/> ÷ 30 = <input type="text"/>	

To be able to solve related calculations

**MathShed**

**Activity 4:**  
Ahmed says, "I know that when multiplying 5 by 6 the total will be ten times smaller than the total for 50 x 6, because 5 is ten times smaller than 50."

Do you agree?  
Can you think of other examples where this does or doesn't work?  
Explain your answer.

To be able to solve related calculations

**MathShed**

**Activity 5:**  
Yasmin has been making vases. She has made 360 vases in total. She wants to send all of her vases to a different country. She wants all the boxes she uses to be filled each time. Each of the box types show how many vases each will hold. She can order more than one of the same type of box. Which of the types of boxes below should she not use?


A  10    B  30    C  50    D  60

Explain your answer.

To be able to solve related calculations



Evaluation:



$4 \times 60 = 6 \times 40$

Is Astrobee's statement true or false?  
Explain your answer.