Name: .... Class: ....

Multiply unit fractions and whole numbers using arrays

Use arrays to find the products of the following.

a. $\dfrac{3}{7}$ x 14

b. $\dfrac{1}{6}$ x 24

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Use arrays to find the products of the following.

a. $\dfrac{3}{7}$ x 14   Let's first of all look at the denominator.
The dinominator tells us the number of groups we'll have in our row of arrays.
Here, we will make 7 groups;

ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ
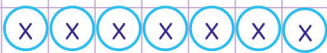
Secondly, let's break the 14 up into 7 groups
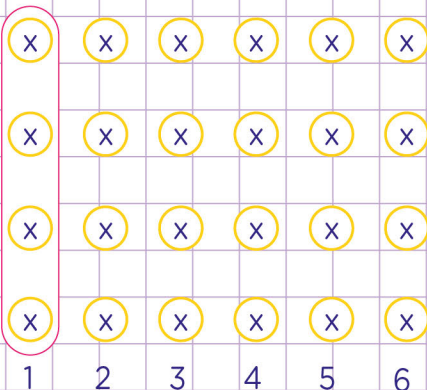
ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ
ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ

Finally, in order to find 3 groups out of 7 groups, let's isolate the arrays into 7 columns.
Circle 3 columns and count the number of x's in the 3 columns;
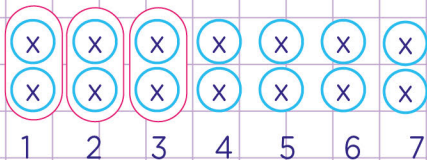
ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ   You see we have 6 x's in the 3 columns.
ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ
1 2 3 4 5 6 7   So, $\dfrac{3}{7}$ x 14 = 6

b. $\dfrac{1}{6}$ x 24

Here we need 1 groups out of 6 groups.
Let's isolate the arrays into 6 columns and circle 1 whole column.

ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ
ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ
ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ   Finally, you see there are 4 x's in 1 column
ⓧ ⓧ ⓧ ⓧ ⓧ ⓧ
1 2 3 4 5 6   So, $\dfrac{1}{6}$ x 24 = 4