

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

## Multiply unit fractions and whole numbers using arrays

Use arrays to find the products of the following.

a.  $\frac{3}{7} \times 14$

b.  $\frac{1}{6} \times 24$

c.  $\frac{5}{8} \times 22$

d.  $\frac{2}{4} \times 20$

e.  $\frac{1}{4} \times 36$

f.  $\frac{2}{3} \times 12$

g.  $\frac{2}{5} \times 24$

h.  $\frac{1}{5} \times 25$

i.  $\frac{3}{4} \times 44$

j.  $\frac{1}{3} \times 18$

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Multiply unit fractions and whole numbers using arrays

Use arrays to find the products of the following.

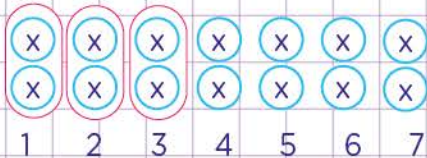
- a.  $\frac{3}{7} \times 14$  Let's first of all look at the denominator.  
 The denominator tells us the number of groups we'll have in our row of arrays.  
 Here, we will make 7 groups;



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;

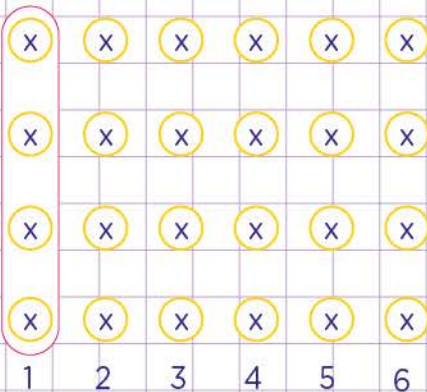


You see that, we have 6 x's in the 3 columns.

So,  $\frac{3}{7} \times 14 = 6$

- b.  $\frac{1}{6} \times 24$

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



Finally, you see that, there are 4 x's in 1 column.

So,  $\frac{1}{6} \times 24 = 4$