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

Multiply unit fractions: Find the missing numbers

Complete the expression below using models, then find the product.
Simplify your answer.

a. $7 \times \frac{3}{8} = \boxed{} \times \frac{1}{8}$

b. $5 \times \frac{2}{5} = \boxed{} \times \frac{1}{5}$

c. $16 \times \frac{3}{4} = \boxed{} \times \frac{1}{4}$

d. $15 \times \frac{2}{3} = \boxed{} \times \frac{1}{3}$

e. $5 \times \frac{7}{9} = \boxed{} \times \frac{1}{9}$

f. $13 \times \frac{3}{17} = \boxed{} \times \frac{1}{17}$

Solution

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

Multiply unit fractions: Find the missing numbers

Complete the expression below using models, then find the product. Simplify your answer

a. $7 \times \frac{3}{8} = \boxed{21} \times \frac{1}{8}$

Here, we need to break the fraction as a product of a whole number and a unit fraction.

To do this, let's pull out our unit fraction.

$7 \times \frac{3}{8} = 7 \times \left(3 \times \frac{1}{8}\right)$

Then, we multiply the whole numbers

$7 \times \left(3 \times \frac{1}{8}\right) = (7 \times 3) \times \frac{1}{8} = 21 \times \frac{1}{8}$

So, the missing number is 21 and the complete expression is $\frac{21}{8}$

b. $5 \times \frac{2}{5} = \boxed{10} \times \frac{1}{5}$

c. $16 \times \frac{3}{4} = \boxed{48} \times \frac{1}{4}$

d. $15 \times \frac{2}{3} = \boxed{30} \times \frac{1}{3}$

e. $5 \times \frac{7}{9} = \boxed{35} \times \frac{1}{9}$

f. $13 \times \frac{3}{17} = \boxed{39} \times \frac{1}{17}$