Multiplying Fractions and Whole Numbers # 21

A whole # can be written as a fraction by placing the whole # over 1

EX. $4 = \frac{4}{1}$ $13 = \frac{13}{1}$

Steps

1. Write problem horizontally
2. Write any whole #'s as fractions
3. Cross Cancel if possible
   * simplify diagonally
4. Multiply straight across (numerator X numerator AND denominator X denominator)
5. Simplify if possible (and no improper fractions)

EX. $5 \times \frac{1}{8} = \frac{5}{1} \times \frac{1}{8} = \boxed{\frac{5}{8}}$

EX. $3 \times \frac{1}{9} = \frac{\overset{1}{\cancel{3}}}{1} \times \frac{1}{\cancel{9}_{3}} = \boxed{\frac{1}{3}}$

EX. $\frac{3}{4} \times 36 = \frac{3}{\cancel{4}_{1}} \times \frac{\overset{9}{\cancel{36}}}{1} = \frac{27}{1} = \boxed{27}$

EX. Evaluate 6x for x = $\frac{1}{8}$.

$6x = \frac{\overset{3}{\cancel{6}}}{1} \times \frac{1}{\cancel{8}_{4}} = \boxed{\frac{3}{4}}$

EX. Evaluate 6x for x = $\frac{2}{3}$.

$6x = \frac{\overset{2}{\cancel{6}}}{1} \times \frac{2}{\cancel{3}_{1}} = \frac{4}{1} = \boxed{4}$