

## 7-2 Multiplying Fractions

To mult. frac. :  $\frac{\text{numerator} \times \text{numerator}}{\text{denominator} \times \text{denominator}}$

Then  $\checkmark$  for SF

Ex  $\frac{1}{4} \cdot \frac{2}{3} = \frac{2}{12} = \boxed{\frac{1}{6}}$

Shortcut:

1<sup>st</sup> look diagonally  
across

2<sup>nd</sup> find GCF for both  
#s + divide by it

3<sup>rd</sup> mult. normally +  
 $\checkmark$  for SF

OR

$$2 \overline{) \frac{1}{4} \cdot \frac{2}{3}} = \boxed{\frac{1}{6}}$$

$$1) \frac{\overset{1}{\cancel{2}}}{\underset{5}{\cancel{10}}} \times \frac{\overset{4^2}{\cancel{4}}}{\underset{3}{\cancel{9}}} = n$$

$$\boxed{\frac{2}{15} = n}$$

2)  $18 \times \frac{2}{9}$  → make whole #  
frac. by putting  
over 1

$$\frac{\overset{2}{\cancel{18}}}{\underset{1}{\cancel{1}}} \times \frac{\overset{2}{\cancel{2}}}{\underset{1}{\cancel{9}}} = \frac{4}{1} = \boxed{4}$$

↑  
must make  
whole #

$$3) \left( \frac{\overset{1}{\cancel{5}}}{\underset{2}{\cancel{12}}} \right) \left( \frac{\overset{3}{\cancel{18}}}{\underset{5}{\cancel{25}}} \right) = \boxed{\frac{3}{10}} \quad * \text{ ( ) beside ( ) means to mult.}$$

4) Find the perimeter.



$$\frac{3}{8} \times 4 = P$$

$$2 \frac{\cancel{3}}{\cancel{8}} \cdot \frac{4^1}{1} = P$$

$$2 \frac{3}{2} \text{ yd} = P$$

$$\boxed{1 \frac{1}{2} \text{ yd} = P}$$

makes more sense as mixed #