

## C: Multiplying Proper Fractions Continued

### Examples:

1. There is  $\frac{1}{3}$  of a pizza left over. You want to eat  $\frac{1}{2}$  of the remaining pizza. How much of the whole pizza did you eat?

$x$  = amount of whole pizza eaten. ✓

$x$  =  $\frac{1}{2}$  of a  $\frac{1}{3}$  ✓

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$$x = \frac{1}{2} \times \frac{1}{3} \quad \checkmark$$

$$= \frac{1}{6} \text{ of the pizza} \quad \checkmark$$

I ate  $\frac{1}{6}$  of the whole pizza. ✓

2. About  $\frac{1}{30}$  of the people in Canada live in the maritimes. Of the people who live in the maritimes, about  $\frac{1}{5}$  of them live in Nova Scotia. What fraction of people that live in Canada live in Nova Scotia?

$x$  - Canadians who live in Nova Scotia. ✓

$x$  =  $\frac{1}{5}$  of the  $\frac{1}{30}$  ✓

$$x = \frac{1}{5} \times \frac{1}{30} \quad \checkmark$$

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$$= \frac{1}{150} \quad \checkmark$$

$\frac{1}{150}$  of Canadians live in Nova Scotia ✓

3. In a sample of grade 8 students  $\frac{2}{3}$  of them achieve honors. Of the honor students  $\frac{3}{5}$  of them achieve higher than 90%.

a) What fraction of Grade 8's achieve above 90%?

x - students who achieve over 90% ✓

$$x = \frac{3}{5} \text{ of } \frac{2}{3} \checkmark$$

$$= \frac{3}{5} \times \frac{2}{3} \checkmark$$

$\frac{2}{5}$  of Gr 8's achieve

over 90%. ✓  $\frac{1}{5}$

$$\boxed{= \frac{2}{5} \checkmark}$$

b) If there are 35 grade 8 students,

how many achieve over 90%?

y - number of students who achieve over 90%. ✓

$$y = 35 \text{ of } \frac{2}{5} \checkmark$$

$$= \frac{35}{1} \times \frac{2}{5} \checkmark$$

$$= \frac{14}{1} \checkmark$$

$$\boxed{= 14 \text{ students} \checkmark}$$

14 ✓ students achieve over 90%.

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