

$$\frac{1}{1} \times \frac{8}{9}$$

Look at opposite corners.
If they have common
factor then reduce

4 & 8 can
both be divided the corners
by 4.

New fractions:

$$\frac{1}{1} \times \frac{2}{9} = \frac{2}{9}$$

Example 2:

$$\frac{9}{10} \times \frac{2}{27}$$

9 27 common
factor is

$$\frac{3}{10} \times \frac{2}{9}$$

3.

2, 10 common
factor: 2

$$\frac{3}{5} \times \frac{1}{9} = \frac{3}{45} = \frac{1}{15}$$

70)

$$\frac{3}{4} \times \frac{8}{5} = \frac{6}{5} = \frac{1}{5}$$

9. a) $\frac{3}{8} \times \frac{1}{4}$

$$= \frac{3}{32}$$

Josten spent $\frac{3}{32}$.

b) $\frac{1}{3} \times \frac{1}{4}$

$$= \frac{1}{12}$$

Chantel ate $\frac{1}{12}$ of the boquette.

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11. $\frac{5}{6}$ of $\frac{3}{4}$

$$\frac{5}{\cancel{6}^2} \times \frac{\cancel{3}^1}{4}$$

$$= \frac{5}{2} \times \frac{1}{4}$$

$$= \frac{5}{8}$$

Eva has $\frac{3}{8}$ left.

$$\begin{aligned}
 12. \quad & \frac{\overset{1}{\cancel{3}}}{\underset{1}{\cancel{4}}} \times \frac{\overset{1}{\cancel{4}}}{\underset{1}{\cancel{3}}} \\
 & = \frac{1}{1} \times \frac{1}{1} \\
 & = \frac{1}{1} \\
 & = 1
 \end{aligned}$$

$$\begin{aligned}
 \text{ii) } & \frac{1}{5} \times \frac{5}{1} \\
 & = 1
 \end{aligned}$$

When you multiply a fraction by a reciprocal the product is 1.

$$13. \quad \frac{1}{2} \times \frac{4}{1} = 2 \quad \text{ii) } \frac{1}{3} \times \frac{9}{1} = 3$$

$$\begin{aligned}
 & \frac{2}{4} \times \frac{4}{1} \\
 & \frac{2}{4} \times \frac{4}{2}
 \end{aligned}$$

$$\text{iii) } \frac{10}{20} \times \frac{8}{1} = 4$$

$$\begin{aligned}
 \text{iv) } & \frac{10}{20} \times \frac{8}{1} = 4
 \end{aligned}$$

$$\text{iv) } \frac{2}{5} \times \frac{50}{4} = 5$$

$$\frac{80}{20} = 4$$

$$\frac{4}{2} \times \frac{25}{10} = \frac{100}{20}$$

$$\frac{6}{3} \times \frac{15}{5} = \frac{90}{15}$$

$$\frac{14}{7} \times \frac{7}{2} = 7$$

$$\frac{98}{14}$$

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$$\frac{2}{7} \times \frac{49}{2}$$

14.

$$\frac{1}{12} + \frac{6}{12}$$

$$\frac{3}{12} + \frac{4}{12}$$

$$\frac{2}{12} + \frac{5}{12}$$