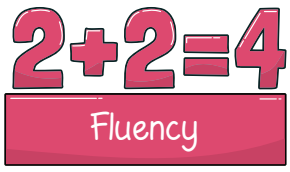
Multiply unit fractions by an integer



GD

1) Complete the multiplications below, writing the improper fraction and mixed fraction for each.

$12 \times \frac{1}{11} = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

$\frac{1}{8} \times 11 = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

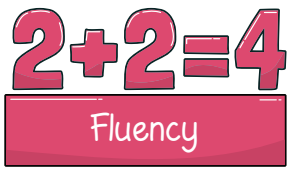
$\frac{1}{4} \times 9 = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

$11 \times \frac{1}{6} = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

$8 \times \frac{1}{5} = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

$\frac{1}{7} \times 17 = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

Multiply unit fractions by an integer



GD

2) Complete the calculations and then order the answers from greatest to smallest.

$9 \times \frac{1}{5} = \square$

$\frac{1}{12} \times 7 = \square$

$\frac{1}{7} \times 6 = \square$

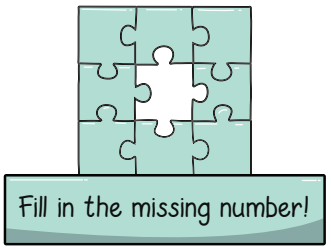
$11 \times \frac{1}{4} = \square$

$10 \times \frac{1}{5} = \square$

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

Greatest Smallest

Multiply unit fractions by an integer



GD

3) Fill in the missing fractions to complete the multiplications below.

$14 \times \frac{1}{8} = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

$9 \times \frac{\square}{\square} = \frac{\square}{\square}$ or $1\ \frac{4}{5}$

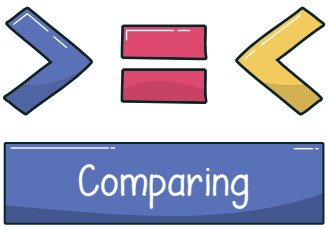
$9 \times \frac{\square}{\square} = \frac{9}{6}$ or $\square\ \frac{\square}{\square}$

$12 \times \frac{\square}{\square} = \frac{\square}{\square}$ or $1\ \frac{3}{9}$

$10 \times \frac{1}{3} = \frac{\square}{\square}$ or $\square\ \frac{\square}{\square}$

$14 \times \frac{\square}{\square} = \frac{14}{5}$ or $\square\ \frac{\square}{\square}$

Multiply unit fractions by an integer



GD

4) Write <, = or > to compare these multiplications.

$8 \times \frac{1}{3}$ ☐ $11 \times \frac{1}{4}$

$6 \times \frac{1}{3}$ ☐ $9 \times \frac{1}{5}$

$7 \times \frac{1}{5}$ ☐ $12 \times \frac{1}{4}$

Multiply unit fractions by an integer

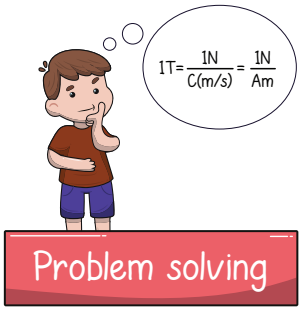
GD

5) Charlotte has written the comparison below.

$$8 \times \frac{1}{3} = 16 \times \frac{1}{6}$$

Is she correct? Explain why?

Multiply unit fractions by an integer

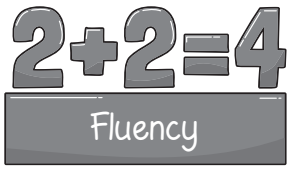


GD

6) Create a number story related to the multiplication below.

$$7 \times \frac{1}{6} = \frac{7}{6} \times 1\frac{1}{6}$$

Multiply unit fractions by an integer



ANSWERS

1) Complete the multiplications below, writing the improper fraction and mixed fraction for each.

$12 \times \frac{1}{11} = \frac{12}{11}$ or $1\frac{1}{11}$

$\frac{1}{8} \times 11 = \frac{11}{8}$ or $1\frac{3}{8}$

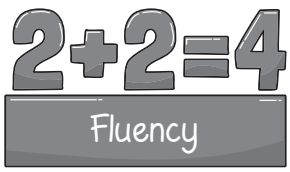
$\frac{1}{4} \times 9 = \frac{9}{4}$ or $2\frac{1}{4}$

$11 \times \frac{1}{6} = \frac{11}{6}$ or $1\frac{5}{6}$

$8 \times \frac{1}{5} = \frac{8}{5}$ or $1\frac{3}{5}$

$\frac{1}{7} \times 17 = \frac{17}{7}$ or $2\frac{3}{7}$

Multiply unit fractions by an integer



ANSWERS

2) Complete the calculations and then order the answers from greatest to smallest.

$9 \times \frac{1}{5} = 1\frac{4}{5}$

$\frac{1}{12} \times 7 = \frac{7}{12}$

$\frac{1}{7} \times 6 = \frac{6}{7}$

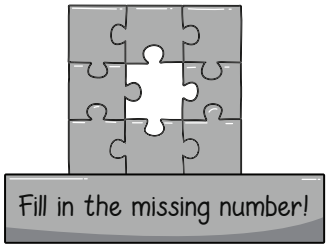
$11 \times \frac{1}{4} = 2\frac{3}{4}$

$10 \times \frac{1}{5} = 2$

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

Greatest					Smallest
$2\frac{3}{4}$	$2\frac{1}{2}$	2	$1\frac{4}{5}$	$\frac{6}{7}$	$\frac{7}{12}$

Multiply unit fractions by an integer



GD

ANSWERS

3) Fill in the missing fractions to complete the multiplications below.

$14 \times \frac{1}{8} = \frac{\boxed{14}}{\boxed{8}}$ or $\boxed{1}\ \frac{\boxed{6}}{\boxed{8}}$

$9 \times \frac{\boxed{1}}{\boxed{5}} = \frac{\boxed{9}}{\boxed{5}}$ or $1\frac{4}{5}$

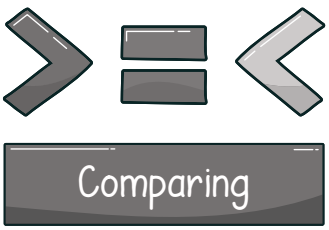
$9 \times \frac{\boxed{1}}{\boxed{6}} = \frac{9}{6}$ or $\boxed{1}\ \frac{\boxed{3}}{\boxed{6}}$

$12 \times \frac{\boxed{1}}{\boxed{9}} = \frac{\boxed{12}}{\boxed{9}}$ or $1\frac{3}{9}$

$10 \times \frac{1}{3} = \frac{\boxed{10}}{\boxed{3}}$ or $\boxed{3}\ \frac{\boxed{1}}{\boxed{3}}$

$14 \times \frac{\boxed{1}}{\boxed{5}} = \frac{14}{5}$ or $\boxed{2}\ \frac{\boxed{4}}{\boxed{5}}$

Multiply unit fractions by an integer



GD

ANSWERS

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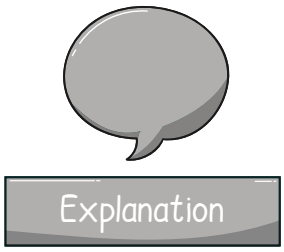
4) Write <, = or > to compare these multiplications.

$8 \times \frac{1}{3}$ **<** $11 \times \frac{1}{4}$

$6 \times \frac{1}{3}$ **>** $9 \times \frac{1}{5}$

$7 \times \frac{1}{5}$ **<** $12 \times \frac{1}{4}$

Multiply unit fractions by an integer



GD

ANSWERS

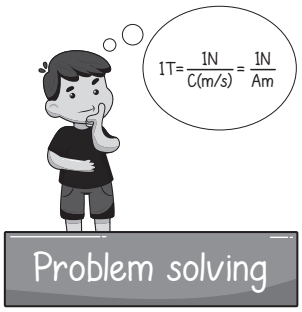
5) Charlotte has written the comparison below.

$$8 \times \frac{1}{3} = 16 \times \frac{1}{6}$$

Is she correct? Explain why?

Charlotte is correct because $8 \times \frac{1}{3} = 2\frac{2}{3}$ and $\frac{16}{6}$ is equivalent to $2\frac{4}{6}$ or $2\frac{2}{3}$.

Multiply unit fractions by an integer



GD

ANSWERS

6) Create a number story related to the multiplication below.

$$7 \times \frac{1}{6} = \frac{7}{6} \times 1\frac{1}{6}$$

Award marks for accurate number stories such as, Martin bakes some cakes and cuts them into 6 slices. He sells 7 slices of cake. How would you write this as a fraction?