

Name: Class:

Multiply unit fractions by whole numbers: sorting

Sort each expression below into the correct box by comparing each product to one.

a. $\frac{1}{3} \times 5$, $2 \times \frac{1}{2}$, $\frac{3}{4} \times 1$, $2 \times \frac{3}{6}$

less than 1	equal to 1	greater than 1

b. $\frac{1}{8} \times 10$, $4 \times \frac{1}{8}$, $\frac{1}{8} \times 11$, $8 \times \frac{1}{8}$, $3 \times \frac{1}{8}$

less than 1	equal to 1	greater than 1

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a. $\frac{1}{3} \times 5$, $2 \times \frac{1}{2}$, $\frac{3}{4} \times 1$, $2 \times \frac{3}{6}$

Let's first of all find the product of $\frac{1}{3} \times 5$, then compare it to 1.

$$\frac{1}{3} \times 5 = \frac{1 \times 5}{3} = \frac{5}{3} = 1 \frac{2}{3}$$

You see that, $1 \frac{2}{3}$ is greater than 1. So, $\frac{1}{3} \times 5$ should be placed under the label "greater than 1" in the table.

Secondly, let's find the product of $2 \times \frac{3}{4}$, then compare it to 1.

$$2 \times \frac{3}{4} = \frac{2 \times 3}{4} = \frac{6}{4} = 1 \frac{1}{2}$$

You see that, $1 \frac{1}{2}$ is greater than 1. So, $2 \times \frac{3}{4}$ should be placed under the label "greater than 1" in the table

Thirdly, let's find the product of $1 \times \frac{1}{2}$, then compare it to 1.

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

You see that, $\frac{1}{2}$ is less than 1. So, $1 \times \frac{1}{2}$ should be placed under the label "less than 1" in the table.

Finally, let's find the product of $2 \times \frac{3}{6}$, then compare it to 1.

$$2 \times \frac{3}{6} = \frac{2 \times 3}{6} = \frac{6}{6} = 1$$

You see that, 1 is equal to 1. So, $2 \times \frac{3}{6}$ should be placed under the label "equal to 1" in the table.

less than 1	equal to 1	greater than 1
$1 \times \frac{1}{2}$	$2 \times \frac{3}{6}$	$\frac{1}{3} \times 5$, $2 \times \frac{3}{4}$

b. $\frac{1}{8} \times 10$, $4 \times \frac{1}{8}$, $\frac{1}{8} \times 11$, $8 \times \frac{1}{8}$, $3 \times \frac{1}{8}$

less than 1	equal to 1	greater than 1
$4 \times \frac{1}{8}$, $3 \times \frac{1}{8}$	$8 \times \frac{1}{8}$	$\frac{1}{8} \times 10$, $11 \times \frac{1}{8}$