

LO: Fraction x whole number

Draw your preferred model to represent each of these.

$$\frac{3}{5} \times 1 = \boxed{\frac{3}{5}} \quad \frac{3}{5}$$

$$\frac{3}{5} \times 2 = \boxed{\frac{3}{5}} \boxed{\frac{3}{5}} \quad \frac{6}{5} = 1\frac{1}{5}$$

$$\frac{3}{5} \times 3 = \boxed{\frac{3}{5}} \boxed{\frac{3}{5}} \boxed{\frac{3}{5}} \quad \frac{9}{5} = 1\frac{4}{5}$$

$$\frac{3}{5} \times 4 = \boxed{\frac{3}{5}} \boxed{\frac{3}{5}} \boxed{\frac{3}{5}} \boxed{\frac{3}{5}} \quad \frac{12}{5} = 2\frac{2}{5}$$

Which multiplication does each model represent?

1. $\boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \boxed{\frac{1}{4}} \quad 4 \times \frac{3}{4} = \frac{12}{4} = 3$

2. $\boxed{\frac{1}{7}} \boxed{\frac{1}{7}} \boxed{\frac{1}{7}} \boxed{\frac{1}{7}} \boxed{\frac{1}{7}} \boxed{\frac{1}{7}} \boxed{\frac{1}{7}} \boxed{\frac{1}{7}} \quad 3 \times \frac{4}{7} = \frac{12}{7} = 1\frac{5}{7}$

3. $\boxed{\frac{2}{3}} \boxed{\frac{2}{3}} \boxed{\frac{2}{3}} \boxed{\frac{2}{3}} \boxed{\frac{2}{3}} \boxed{\frac{2}{3}} \quad 6 \times \frac{2}{3} = \frac{12}{3} = 4$

4. $\boxed{\frac{1}{5}} \boxed{\frac{1}{5}} \boxed{\frac{1}{5}} \boxed{\frac{1}{5}} \boxed{\frac{1}{5}} \boxed{\frac{1}{5}} \boxed{\frac{1}{5}} \boxed{\frac{1}{5}} \quad 5 \times \frac{2}{5} = \frac{10}{5} = 2$

5. $\boxed{\frac{5}{6}} \boxed{\frac{5}{6}} \boxed{\frac{5}{6}} \boxed{\frac{5}{6}} \quad 4 \times \frac{5}{6} = \frac{20}{6} = 3\frac{2}{6}$

Jill runs $\frac{4}{5}$ mile 3 times each week.

Sam runs $\frac{2}{3}$ mile 4 times each week.

Who runs the furthest during the week?

Show how you know.

Jill runs $\frac{4}{5} \times 3 = \frac{12}{5} = 2\frac{2}{5}$ m.

Sam runs $\frac{2}{3} \times 4 = \frac{8}{3} = 2\frac{2}{3}$ m.

They both run 2 whole miles. So is $\frac{2}{5}$ further than $\frac{2}{3}$? $\frac{2}{3}$ is further (greater) than $\frac{2}{5}$.

Sam runs the furthest.