Name

Multiplication as Scaling

Think of multiplication as scaling or resizing.

Example 1: $2\frac{1}{2} \times 5 > 5$

Multiplying a number by a fraction greater than 1 results in a product greater than the starting number.

Example 2: $\frac{3}{4} \times 5 < 5$

Multiplying a number by a fraction less than 1 results in a product less than the starting number.

Example 3: $\frac{2}{2} \times 5 = 5$

Multiplying by a fraction equal to 1 results in a product equal to the starting number.

Without multiplying, decide which symbol belongs in the box:

to the starting num
Without multiplying,
<, >, or =.
1.
$$3\frac{1}{2} \times 3\frac{1}{3}$$
 3 $\frac{1}{2}$
2. $\frac{2}{3} \times 2\frac{1}{3}$ 2 $\frac{1}{3}$
3. $8\frac{2}{5} \times \frac{5}{5}$ 8 $\frac{2}{5}$
4. $\frac{3}{4} \times 4\frac{2}{3}$ 4 $\frac{2}{3}$
5. $4\frac{1}{2} \times 1\frac{1}{3}$ 1 $\frac{1}{3}$
6. $\frac{2}{5} \times 5\frac{2}{3}$ 5 $\frac{2}{3}$
7. $3\frac{2}{5} \times \frac{4}{4}$ 3 $\frac{2}{5}$
8. $\frac{5}{8} \times 8\frac{1}{3}$ 8 $\frac{1}{3}$
9. $5\frac{1}{2} \times 6\frac{2}{3}$ 6 $\frac{2}{3}$
10. $\frac{3}{8} \times 2\frac{1}{3}$ 2 $\frac{1}{3}$

11. $10\frac{2}{5} \times \frac{8}{8}$ 10 $\frac{2}{5}$

12. $\frac{1}{2} \times 9\frac{1}{3}$ 9 $\frac{1}{3}$

Reteaching

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