

Name: Class:

Scaling whole numbers by fractions

Without evaluating the following expressions, compare them using $<$, $>$, or $=$

N/B

-When you multiply a whole number by a fraction less than 1, the results will be less than the whole number.

-When you multiply a whole number by a fraction equal to 1, the result will be equal to the whole number.

-When you multiply a whole number by a fraction greater than 1, the result will be greater than the whole number.

a. 15 $15 \times \frac{6}{4}$

d. 12 $12 \times \frac{1}{2}$

b. 5 $5 \times \frac{10}{10}$

e. $\frac{1}{5} \times 25$ 25

c. $17 \times \frac{1}{3}$ 17

f. $\frac{1}{2} \times 13$ 13

Name: Class:

Scaling whole numbers by fractions

Without evaluating the following expressions, compare them using $<$, $>$, or $=$

N/B

-When you multiply a whole number by a fraction less than 1, the results will be less than the whole number.

-When you multiply a whole number by a fraction equal to 1, the result will be equal to the whole number.

-When you multiply a whole number by a fraction greater than 1, the result will be greater than the whole number.

a. $15 < 15 \times \frac{6}{4}$

Since $\frac{6}{4}$ is greater than 1, it implies that $15 \times \frac{6}{4}$ is greater than 15

So, $15 < 15 \times \frac{6}{4}$

d. $12 > 12 \times \frac{1}{2}$

Since $\frac{1}{2}$ is less than 1, it implies that $12 \times \frac{1}{2}$ is less than 12

So, $12 > 12 \times \frac{1}{2}$

b. $5 = 5 \times \frac{10}{10}$

Since $\frac{10}{10}$ is equal to 1, it implies that $5 \times \frac{10}{10}$ is equal to 5

So, $5 = 5 \times \frac{10}{10}$

e. $\frac{1}{5} \times 25 < 25$

Since $\frac{1}{5}$ is less than 1, it implies that $25 \times \frac{1}{5}$ is less than 25

So, $\frac{1}{5} \times 25 < 25$

c. $17 \times \frac{1}{3} < 17$

Since $\frac{1}{3}$ is less than 1, it implies that $17 \times \frac{1}{3}$ is less than 17

So, $17 \times \frac{1}{3} < 17$

f. $\frac{1}{2} \times 13 < 13$

Since $\frac{1}{2}$ is less than 1, it implies that $13 \times \frac{1}{2}$ is less than 13

So, $\frac{1}{2} \times 13 < 13$