

Name: Class:

Scaling whole numbers by fractions. Justify your answer

Choose the correct sign to compare the expressions below $>$, $<$ or $=$, and explain why your answer is correct by filling the blank spaces using the following words: **smaller, less than 1, larger, greater than 1**.

a. $10 \times \frac{3}{4}$ 10

Since $\frac{3}{4}$ is _____, multiply 10 by $\frac{3}{4}$ makes the value _____.

b. $6 \times \frac{9}{5}$ 6

Since $\frac{9}{5}$ is _____, multiply 6 by $\frac{9}{5}$ makes the value _____.

c. 12 $12 \times \frac{2}{5}$

Since $\frac{2}{5}$ is _____,

d. 7 $7 \times \frac{3}{2}$

e. $17 \times \frac{5}{4}$ 17

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Choose the correct sign to compare the expressions below $>$, $<$ or $=$, and explain why your answer is correct by filling the blank spaces using the following words: **smaller, less than 1, larger, greater than 1**.

a. $10 \times \frac{3}{4} < 10$

Since $\frac{3}{4}$ is **less than 1**, multiplying 10 by $\frac{3}{4}$ makes the value **smaller**.

b. $6 \times \frac{9}{5} > 6$

Since $\frac{9}{5}$ is **greater than 1**, multiplying 6 by $\frac{9}{5}$ makes the value **larger**.

c. $12 > 12 \times \frac{2}{5}$

Since $\frac{2}{5}$ is **less than 1**, multiplying 12 by $\frac{2}{5}$ makes the value **smaller**.

d. $7 < 7 \times \frac{3}{2}$

Since $\frac{3}{2}$ is **greater than 1**, multiplying 7 by $\frac{3}{2}$ makes the value **larger**.

e. $17 \times \frac{5}{4} > 17$

Since $\frac{5}{4}$ is **greater than 1**, multiplying 17 by $\frac{5}{4}$ makes the value **larger**.