

Greater, Lesser, In-Between

Pre-Activity

Put a number in the blank space in each pair of decimals, so that the top decimal is **greater** than the bottom decimal:

a) $0.239_$
 $0.239_$

b) 11.2_5
 11.2_5

Put a number in the blank space in each pair of fractions, so that the top fraction is **greater** than the bottom fraction:

a) $\frac{_}{8}$
 $\frac{_}{8}$

b) $\frac{9}{_}$
 $\frac{8}{_}$

Fill in the missing digits so that, in each group, the value of the middle decimal is **between** that of the top and the bottom decimal:

a) $.3174$
 $.3____$
 $.2968$

b) $.3174$
 $______$
 $.2968$

Task

1. a. In each of the following number pairs, put numbers in the blank spaces which will make the top number **greater than** the bottom number:

$$\begin{array}{r} 3.2_0 \\ 3.2_9 \end{array}$$

$$\begin{array}{r} 3._1_ \\ 3.2_ _ \end{array}$$

$$\begin{array}{r} _._36 \\ _._35 \end{array}$$

b. In each of the following number pairs, put numbers in the blank spaces which will make the top number **less than** the bottom number:

$$\begin{array}{r} 3.2_0 \\ 3.2_9 \end{array}$$

$$\begin{array}{r} 3._1_ \\ 3.2_ _ \end{array}$$

$$\begin{array}{r} _._36 \\ _._35 \end{array}$$

2. a. In each of the following fraction pairs, fill in the blank spaces so that the top fraction is **greater than** the bottom fraction:

$$\begin{array}{r} _ / 7 \\ 4/5 \end{array}$$

$$\begin{array}{r} 1_ / 30 \\ 5/8 \end{array}$$

b. In each fraction pair, fill in the blank spaces so that the top fraction is **less than** the bottom fraction:

$$\begin{array}{r} _ / 7 \\ 4/5 \end{array}$$

$$\begin{array}{r} 1_ / 30 \\ 5/8 \end{array}$$

3. Given the following sets of decimals, fill in the spaces so that, in each group, the value of the middle decimal is **between** that of the top and the bottom decimals:

$$\begin{array}{r} .3174 \\ .29_ _ \\ .2968 \end{array}$$

$$\begin{array}{r} .31_4 \\ _ _ _ _ _ \\ .2_68 \end{array}$$

4. Write a number in each box to make the following inequalities true:

$$\text{a. } 9/13 < \square < 10/13$$

$$\text{b. } 13/10 < \square < 13/9$$

$$\text{c. } 9/13 < \square < 90001/130000$$