



## The Five-Step Rule for Writing Modified Expressions Answer Key

**Activity time:** Describe how the Five-Step Rule is used.

1.  $\frac{1}{7} = 0.\overline{142857}$         

This would be read as one seventh equals zero point one four two eight five seven with the 142857 repeating.

Answer: Begin by writing open fraction indicator, 1, horizontal fraction bar, 7, close fraction indicator, space, equals, space, numeric indicator, zero, decimal point.

Step 1: Write the multipurpose indicator (dot 5).

Step 2: Write the digits that will be repeating (1 4 2 8 5 7).

Step 3: Write the directly-over indicator (dots 1-2-6).

Step 4: Write the horizontal bar (dots 1-5-6).

Step 5: Write the termination indicator (dots 1-2-4-5-6).

**Activity time:** Describe how the Five-Step Rule is used.

2.  $\overleftrightarrow{CD}$

This would be read as line CD. The two-way horizontal arrow is used to indicate lines.

Answer:

Step 1: Write the multipurpose indicator (dot 5).

Step 2: Write what is being modified (capital C, capital D).

Step 3: Write the directly-over indicator (dots 1-2-6).

Step 4: Write the two-way horizontal arrow (dots 1-2-4-6, dots 2-4-6, dots 2-5, dots 2-5, dots 1-3-5).

Step 5: Write the termination indicator (dots 1-2-4-5-6).

3.  $\overline{EF}$  

This would be read as segment EF. The horizontal bar is used to indicate segments.

Answer:

Step 1: Write the multipurpose indicator (dot 5).

Step 2: Write what is being modified (capital E, capital F).

Step 3: Write the directly-over indicator (dots 1-2-6).

Step 4: Write the horizontal bar (dots 1-5-6).

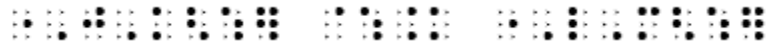
4.  $\overleftrightarrow{AB} \parallel \overleftrightarrow{EF}$



Step 4: Write the contracted right-pointing arrow (dots 1-2-4-6, dots 1-3-5).

Step 5: Write the termination indicator (dots 1-2-4-5-6).

6.  $\overline{JK} \cong \overline{LM}$



This would be read as segment JK is congruent to segment LM. The Nemeth symbol for "is congruent to" is dot 4, dots 1-5-6, dots 4-6, dots 1-3.

Answer:

Step 1: Write the multipurpose indicator (dot 5).

Step 2: Write what is being modified (capital J, capital K).

Step 3: Write the directly-over indicator (dots 1-2-6).

Step 4: Write the horizontal bar (dots 1-5-6).

Step 5: Write the termination indicator (dots 1-2-4-5-6).

Next insert: space, is congruent to, space, and then you are ready to use the Five-Step Rule again to write the next modified expression:

Step 1: Write the multipurpose indicator (dot 5).

Step 2: Write what is being modified (capital L, capital M).

Step 3: Write the directly-over indicator (dots 1-2-6).

Step 4: Write the horizontal bar (dots 1-5-6).

Step 5: Write the termination indicator (dots 1-2-4-5-6).