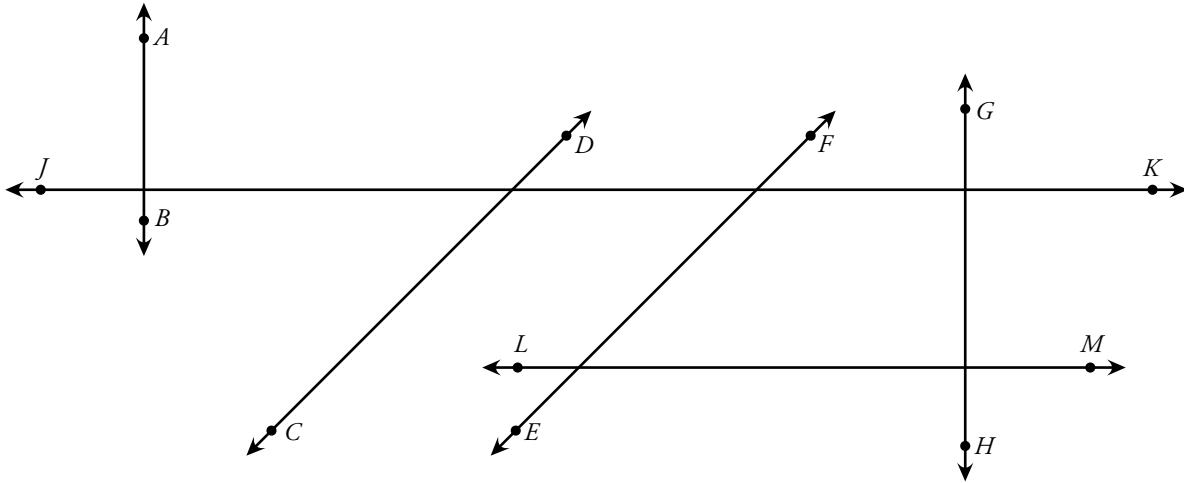


Name: _____

Parallel, Intersecting, and Perpendicular Lines



Answer the following using the illustration above.

1. Which line is parallel to \overleftrightarrow{GH} ? _____

2. Name for _____

3. Name tw _____

4. How many lines are parallel to \overleftrightarrow{EF} ? _____

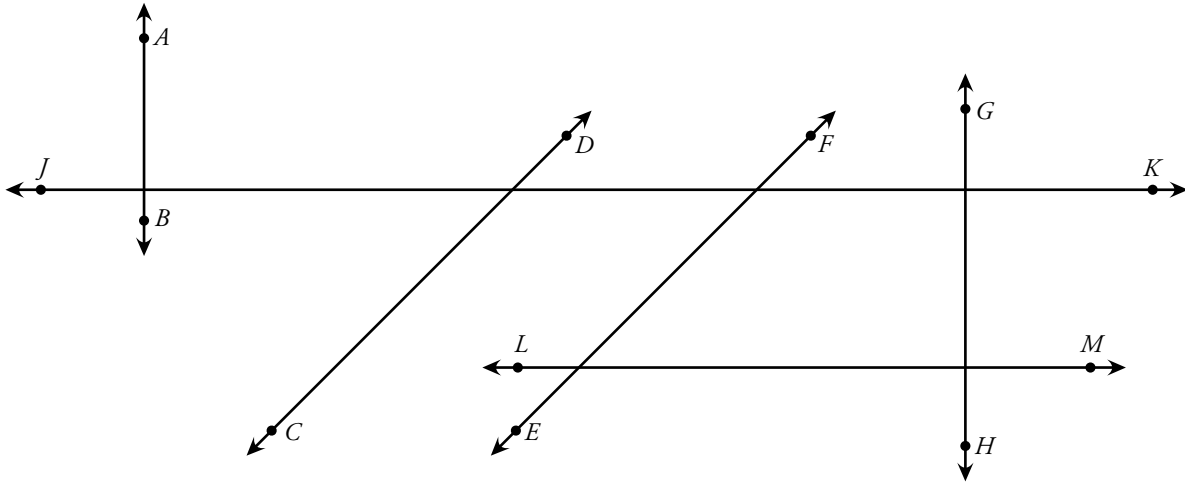
5. Does \overleftrightarrow{CD} intersect \overleftrightarrow{GH} ? Explain.

6. Is \overleftrightarrow{JK} perpendicular to \overleftrightarrow{EF} ? Explain.



ANSWER KEY

Parallel, Intersecting, and Perpendicular Lines



Answer the following using the illustration above.

1. Which line is parallel to \overleftrightarrow{GH} ?

\overleftrightarrow{AB}

2. Name the lines that are parallel to \overleftrightarrow{CD} and \overleftrightarrow{GH} .

\overleftrightarrow{EF} , and \overleftrightarrow{GH}

3. Name the lines that are parallel to \overleftrightarrow{LM} .

and \overleftrightarrow{JK}

4. How many lines are parallel to \overleftrightarrow{EF} ?

one (\overleftrightarrow{CD})

5. Does \overleftrightarrow{CD} intersect \overleftrightarrow{GH} ? Explain.

Yes. Because both lines \overleftrightarrow{CD} and \overleftrightarrow{GH} continue on in both directions forever, they will

eventually intersect. Using a ruler to continue the lines will show this.

6. Is \overleftrightarrow{JK} perpendicular to \overleftrightarrow{EF} ? Explain.

No. Line \overleftrightarrow{JK} would need to intersect line \overleftrightarrow{EF} at a right angle for them to be perpendicular.

