

Do We Have a Match?

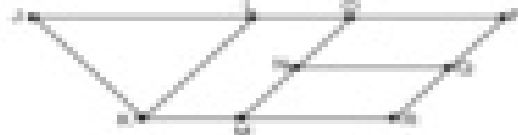
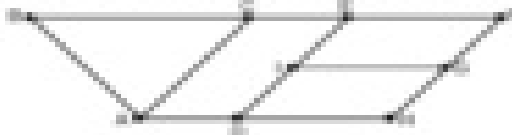
Marvin and Melvin Mouse are twins who like everything to match—even their wedges of cheese! Their mother, Mrs. Mouse, has just given them a basket of cheese wedges. Help Marvin and Melvin do some matching. Remember, figures that are congruent have the same shape and size. Figures that are similar have the same shape but not necessarily the same size. Congruent figures can also have corresponding congruent parts, such as line segments and angles.



Marvin is holding one wedge of cheese. Color the wedges below that are congruent to the one in Marvin's hand.



Mabel Mouse has combined several smaller wedges of cheese to make two larger identical wedges. Each line segment and angle in the wedge on the left corresponds to a matching part in the wedge on the right. Identify these congruent parts.



\sphericalangle = angle	\overline{AC} = _____	\overline{GA} = _____	\overline{FD} = _____
$\overline{--}$ = line segment	$\sphericalangle BCA$ = _____	$\sphericalangle CD$ = _____	$\sphericalangle DMG$ = _____
\cong = congruent	$\sphericalangle DNG$ = _____	\overline{CE} = _____	$\sphericalangle E$ = _____
	$\sphericalangle GPH$ = _____	$\sphericalangle JKL$ = _____	\overline{QR} = _____

Finally, study the wedge of cheese Melvin is pointing out. Then use your ruler and protractor to help you draw a congruent match for it in the space provided. Color your drawing if you wish.



Bonus Box: On the back of this page, construct a pair of congruent triangles using a ruler and protractor. Measure and label each angle and line segment in your figures.