

Addition and Subtraction

Problem Types	Structures		
Join	Result Unknown	Change Unknown	Start Unknown
	<p>Mariah had three pencils. She bought five more pencils. How many pencils does she have now?</p> <p style="text-align: center;">$3 + 5 = \square$</p>	<p>Mariah had three pencils. She bought some more pencils. Now she has eight pencils. How many pencils did Mariah buy?</p> <p style="text-align: center;">$3 + \square = 8$</p>	<p>Mariah had some pencils. She bought five more pencils. Now she has eight pencils. How many pencils did Mariah have before she bought some more?</p> <p style="text-align: center;">$\square + 5 = 8$</p>
Separate	Result Unknown	Change Unknown	Start Unknown
	<p>Jennifer had twelve cookies. She ate five cookies. How many cookies does Jennifer have left?</p> <p style="text-align: center;">$12 - 5 = \square$</p>	<p>Jennifer had twelve cookies. She ate some of the cookies. Now she has seven left. How many cookies did Jennifer eat?</p> <p style="text-align: center;">$12 - \square = 7$</p>	<p>Jennifer had some cookies. She ate five cookies. Now she has seven cookies left. How many cookies did Jennifer have to start with?</p> <p style="text-align: center;">$\square - 5 = 7$</p>
Part-Part-Whole	Whole Unknown		Whole Unknown
	<p>Six girls and five boys are at the park. How many children are at the park?</p>		<p>Eleven children are at the park. Six are girls and the rest are boys. How many boys are at the park?</p>
Compare/Additive Comparison	Difference Unknown	Compare Quantity Unknown	Referent Unknown
	<p>Ben has four toy cars. Jacob has six toy cars. Jacob has how many more toy cars than Ben?</p>	<p>Ben has four toy cars. Jacob has two more toy cars than Ben. How many toy cars does Jacob have?</p>	<p>Jacob has six toy cars. He has two more toy cars than Ben. How many toy cars does Ben have?</p>