

Problem Types

This table shows how problem types are incorporated across the grades. A specific grade level problem types chart can be found at the back of each Student Book or Teacher Edition.

	Result Unknown	Change Unknown	Start Unknown
Add to	<p>Six children were playing tag in the yard. Three more children came to play. How many children are playing in the yard now?</p> <p><i>Situation and Solution Equation:</i> $6 + 3 = c$</p>	<p>Six children were playing tag in the yard. Some more children came to play. Now there are 9 children in the yard. How many children came to play?</p> <p><i>Situation Equation:</i> $6 + c = 9$ <i>Solution Equation:</i> $9 - 6 = c$</p>	<p>Some children were playing tag in the yard. Three more children came to play. Now there are 9 children in the yard. How many children were in the yard at first?</p> <p><i>Situation Equation:</i> $c + 3 = 9$ <i>Solution Equation:</i> $3 + c = 9$ or $9 - 3 = c$</p>
Take from	<p>Jake has 10 trading cards. He gave 3 to his brother. How many trading cards does he have left?</p> <p><i>Situation and Solution Equation:</i> $10 - 3 = t$</p>	<p>Jake has 10 trading cards. He gave some to his brother. Now Jake has 7 trading cards left. How many cards did he give to his brother?</p> <p><i>Situation Equation:</i> $10 - t = 7$ <i>Solution Equation:</i> $10 - 7 = t$</p>	<p>Jake has some trading cards. He gave 3 to his brother. Now Jake has 7 trading cards left. How many cards did he start with?</p> <p><i>Situation Equation:</i> $t - 3 = 7$ <i>Solution Equation:</i> $7 + 3 = t$</p>

	Total Unknown	Addend Unknown	Other Addend Unknown
Put Together/ Take Apart	<p>Ana put 9 dimes and 4 nickels in her pocket. How many coins did she put in her pocket?</p> <p><i>Situation and Solution Equation:</i> $9 + 4 = c$</p>	<p>Ana put 13 coins in her pocket. Nine coins are dimes and the rest are nickels. How many are nickels?</p> <p><i>Situation Equation:</i> $13 = 9 + n$ <i>Solution Equation:</i> $13 - 9 = n$</p>	<p>Ana put 13 coins in her pocket. Some coins are dimes and 4 coins are nickels. How many coins are dimes?</p> <p><i>Situation Equation:</i> $13 = d + 4$ <i>Solution Equation:</i> $13 - 4 = d$</p>

	Difference Unknown	Bigger Unknown	Smaller Unknown
Compare ¹	<p>Aki has 8 apples. Sofia has 14 apples. How many more apples does Sofia have than Aki?</p> <p><i>Solution Equation:</i> $8 + a = 14$ or $14 - 8 = a$</p>	<p>Leading Language</p> <p>Aki has 8 apples. Sofia has 6 more apples than Aki. How many apples does Sofia have?</p> <p><i>Solution Equation:</i> $8 + 6 = a$</p>	<p>Leading Language</p> <p>Sofia has 14 apples. Aki has 6 fewer apples than Sofia. How many apples does Aki have?</p> <p><i>Solution Equation:</i> $14 - 6 = a$ or $6 + a = 14$</p>
	<p>Aki has 8 apples. Sofia has 14 apples. How many fewer apples does Aki have than Sofia?</p> <p><i>Solution Equation:</i> $8 + a = 14$ or $14 - 8 = a$</p>	<p>Misleading Language</p> <p>Aki has 8 apples. Aki has 6 fewer apples than Sofia. How many apples does Sofia have?</p> <p><i>Solution Equation:</i> $8 + 6 = a$</p>	<p>Misleading Language</p> <p>Sofia has 14 apples. Sofia has 6 more apples than Aki. How many apples does Aki have?</p> <p><i>Solution Equation:</i> $14 - 6 = a$ or $6 + a = 14$</p>

¹The comparing sentence can always be said in two ways: One uses more, and the other uses fewer. Misleading language suggests the wrong operation. For example, it says *Aki has 6 fewer apples than Sofia*, but you have to **add 6** to Aki's 8 apples to get 14 apples.

