

Modifying Assessments- Grade 6

Directions: Modify this low cognitive demand problem to a higher cognitive demand problem. Show the new problem on the right and explain your strategy or strategies you used to modify the problem on the left.

LOW cognitive demand problem	HIGH cognitive demand problem
<p>1. A box contains 12 orange marbles, and 8 purple marbles. If you pick one marble, don't replace it, and then pick another marble, what is the probability that both will be orange?</p>	

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<p>3. A jar contains the following pens that are all the same size and shape.</p> <ul style="list-style-type: none">• 4 red pens• 3 green pens• 5 blue pens• 4 black pens <p>One pen is randomly selected from the jar. After replacing the first pen, a second pen is randomly selected. Randomly selecting the second pen is an example of --</p> <ul style="list-style-type: none">A. dependent eventB. independent event	

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<p>6. A jar contains 2 red and 3 blue gumballs. Nikki randomly chooses one gumball from the jar and keeps it, and then Tom chooses a gumball. What is the probability that Nikki chooses a red gumball and then Tom chooses a blue gumball?</p>	

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<p>8. Carly is playing a game. She is using a spinner that is divided into eight equal parts each numbered 1 through 8. She has two spins left. She will win if she lands on a 4 and then lands on a 5. What is the probability that she will win the game?</p> 	