Get a read on your analytical skills

TOTAL POINTS 19

1. This practice quiz will help you get a read on the analytical skills you already have.

10 / 10

After you respond to each question, be sure to check the feedback you receive. This will help you check your own thinking against the expected thinking for these questions. The analytical skills assessed in this quiz will come in handy and be further developed as you progress in the program.

Identify the pattern from left to right in the set of blocks below and try to predict which block should replace the block with the question mark.





















✓ Correct

This is the missing block. The pattern of the dots increases by one in each block. Therefore, the best answer has five dots.

2. Here's a more complex pattern. Identify the pattern from left to right in the images below and try to predict which image

1/1













Based on the images above, which option comes next in the pattern?







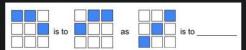




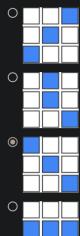
This is the next image in the sequence based on two patterns present in the series: the number of sides and the number of dots. Moving from left to right, both decrease by one. Given these patterns, if the previous block contained a shape with four sides and three dots, then the next shape should have three sides and two dots.

1/1 Fill in the blank: 9, 13, 17, 21, 25, 29, ____ O 25 O 55 33 O 10 The correct answer is 33. The pattern of numbers are all increasing, and the difference between each number 4. The following numbers are in a sequence from left to right. Determine the pattern and decide which number should come 1/1 Fill in the blank: 4, 9, 16, 25, 36, 49, ____ O 30 O 62 64 O 81 ✓ Correct The next number in the series is 64. There are two patterns in the sequence. One is that each number is squared and then the number being squared is increased by one (e.g., 2², 3², 4², 5², 6², 7²). The second pattern is in the difference between the numbers in the sequence: 9 - 4 = 5, 16 - 9 = 7, 25 - 16 = 9, and so on. 5. The following question is about recognizing and matching patterns in shapes that are the same, but viewed from different 1/1 angles. reflection horizontally \leftrightarrow and/or vertically $\updownarrow.$

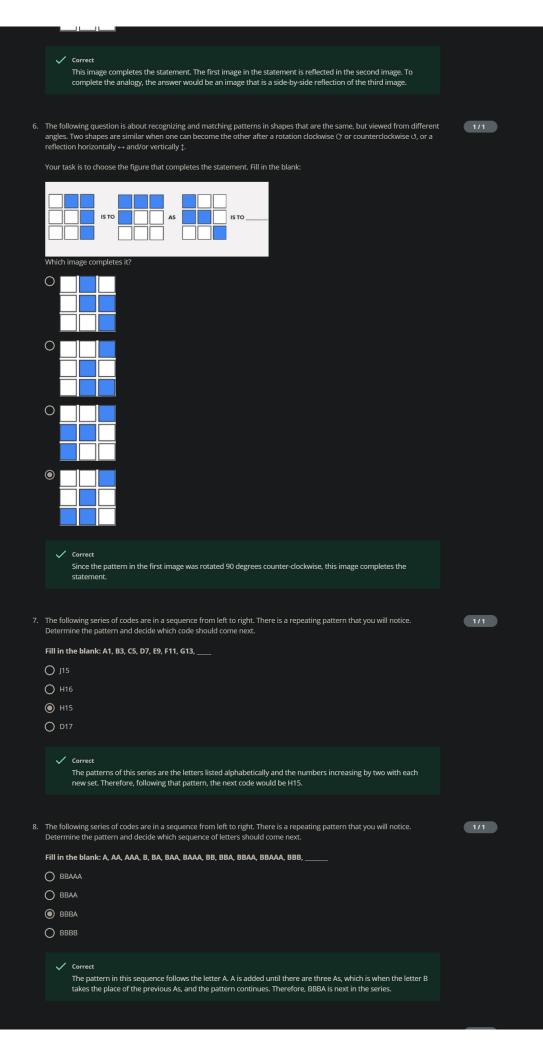
Your task is to choose the figure that completes the statement. Pay attention to the pattern by which the first and second shapes are related, and then figure out which choice matches shape 3. Fill in the blank:

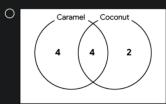


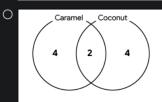
Select the image below that completes the statemen

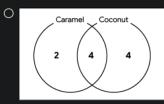


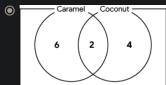
is to











/ (

Correct

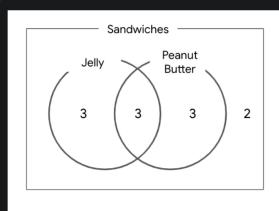
This diagram depicts six chocolates with caramel filling only, four chocolates with coconut filling only, two chocolates with both caramel and coconut filling, and the total number of chocolates is 12.

10. There are 10 children in a class and they have all brought sandwiches for lunch: five children have sandwiches with peanut butter, six children have sandwiches with jelly, and three children have sandwiches with **both** peanut butter **and** jelly.

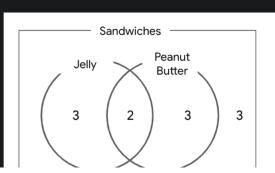
1/1

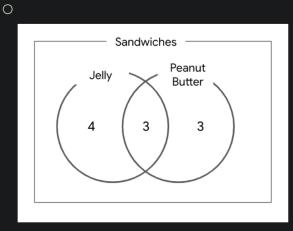
Find out how many children have sandwiches with **neither** peanut butter **nor** jelly and choose the image that describes the situation best.

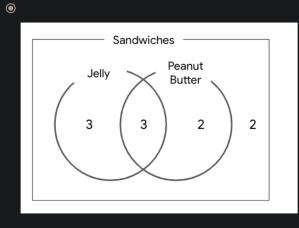












Correct

In this diagram, there are six sandwiches with jelly, five sandwiches with peanut butter, and three sandwiches with both. This means that there are (5+6-3=8) eight sandwiches with either peanut butter or jelly. There are a total of 10 children. Consider: 10-8=2. This means two children have neither peanut butter nor jelly in their sandwiches.