

# MeTEOR Performance Task Seventh Grade

Mathematics  
*Expressions and Equations*



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**MeTEOR**  
CONNECTING THE DOTS

***Performance Task Item: Expressions and Equations***

***Task/Question 1:***

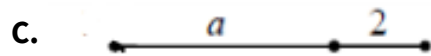
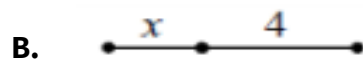
**A.** Define a mathematical expression:

**B.** Define a mathematical equation:

**C.** What is the additive inverse of -5?

**Task/Question 2:**

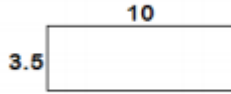
Write the expression that represents the total length of each segment:



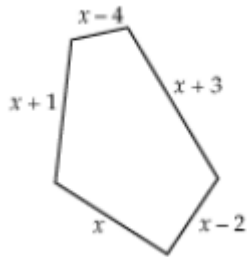
**Task/Question 3:**

Write the expression that represents the Perimeter of each figure:

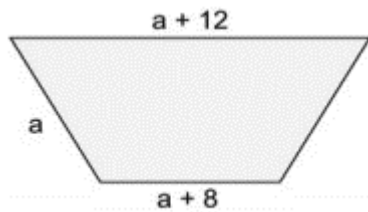
**A.**



**B.**

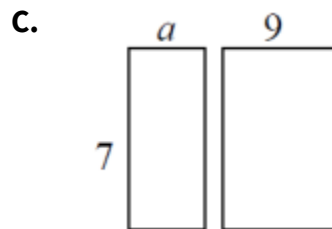
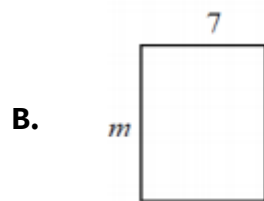


**C.**



**Task/Question 4:**

Write the expression that represents the area of each figure:



**Task/Question 5:**

- A.** Create a number sentence for the following:  
***When 6 is added to four times a number ( $n$ ), the result is 50***
- B.** Find the solution for Part A.
- C.** Does Part A create an expression or an equation? Defend your answer.

**Task/Question 6:**

- A.** Create an equation for the following scenario:

***Isaiah went to Krispy Kreme and bought one glazed lemon filled doughnut and two original glazed doughnuts. He ate them all for breakfast. How many total calories were in the doughnuts that Isaiah ate for breakfast?***

- B.** Use the internet to research the amount of calories for each doughnut in Part A. Substitute those values into your equation and solve:

- C.** Explain how Order of Operations was used as you solved your equation in Part B.

- D.** Create an equation for the following scenario:

***You and your friend are going to a movie next Sunday at 11:00 a.m. Your mom is asking you to take your three 6 year old cousins with you. How much will the tickets cost?***

- E.** Use the internet to research local movie theater ticket prices. Substitute the price of both student and child tickets to complete your equation in Part D and Solve:

- F.** Part A-E of this task are examples of how Algebra is used in the real-world. Describe another example of how you can use Algebra in the real-world. Be prepared to share and defend your example with your classmates.





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