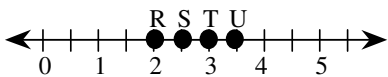


### 13B Validate conclusions using mathematical properties and relationships

1. Which point best represents the number 3.5 on the number line?



- A** R  
**B** S  
**C** T  
**D** U
2. For an art project, students need  $\frac{3}{4}$  of a yard of fabric each. If there are 20 students in a class, and if fabric costs \$2.75 per yard, which expression could be used to calculate the total cost of fabric needed for the class to complete the project?
- A**  $20 \times \frac{3}{4} \times 2.75$   
**B**  $20 + \frac{3}{4} + 2.75$   
**C**  $20 \div \frac{3}{4} \times 2.75$   
**D**  $20 \div \frac{3}{4} \div 2.75$

3. Ashley is preparing for a class party. She wants to order enough pizzas so that each student can have 2 slices. She knows each pizza costs \$8.50 and contains 8 slices. What else does she need to know in order to calculate the number of pizzas to order?

- A** The type of toppings  
**B** The cost per slice  
**C** The number of students  
**D** The diameter of each pizza

4. At the carnival, popcorn costs \$1.75 per box and sodas cost \$2.25 each. What would be the cost for 3 sodas and 2 boxes of popcorn?

- A** \$8.00  
**B** \$10.25  
**C** \$11.50  
**D** \$12.00