- 1. Cecile packages snack mix at a health food store. She uses $\frac{1}{3}$ of her supply of sunflower seeds to make a salted snack mix and $\frac{2}{9}$ of her supply to make an unsalted snack mix. If Cecile uses 10 pounds of sunflower seeds, how many pounds of seeds are in her supply?
 - (A) 18 pounds
 - B 23 pounds
 - © 30 pounds
 - D 40 pounds
- **2.** Select all the statements that are true for the graph shown.



3. The graph shows the volume of water in a sink *x* minutes after the faucet is turned on.



Part A

What is the slope of the line?

Part B

Connor says the graph shows that water is flowing at a rate of 2 gallons per minute. Is he correct? Explain.



4. What is the solution to the equation -0.2(x - 20) = 44 - x?



5. A public parking garage charges \$5, plus an additional \$2 per hour.

Graph the line relating parking costs to time (in hours).



6. Match each equation to its number of solutions.

	One solution	No solution	Infinitely many solutions
-2(3x - 1) = -6x - 1			
2(3x-1) = 6x - 2			
2(3x - 1) = -6x - 2			

7. Solve the equation $\frac{2}{3}x - \frac{1}{5}x = x - 1$.



8. Khalid and Jesse took different overnight trains. The graph shows the relationship between the total distance Khalid traveled and the time in hours. The distance Jesse traveled after x hours is given by the equation y = 150x.



Who, if anyone, traveled at a faster speed? Explain.



9. Maria is renting kayaks from a local shop that charges a \$10 fee, plus an hourly rate of \$7.50. For how long can Maria rent the kayak if she pays a total of \$70?

(A) 6 hours (B) 7 hours

C 8 hours

(D) 9 hours