

5 Bruno's Pastry Factory has two jelly injectors to fill Bruno's jelly donuts. The first jelly injector can fill one of Bruno's jelly donuts in 0.6 seconds, while the second jelly injector can fill one of Bruno's jelly donuts in 0.9 seconds. If both jelly injectors were being used at the same time to fill one of Bruno's jelly donuts, how many seconds would it take to fill the jelly donut?

<b>A</b> 0.34	<b>C</b> 0.38
<b>B</b> 0.36	<b>D</b> 0.4

C 5000 people in the group with 52% males

males and 5000 people in the group with

and 10,000 people in the group with

**D** 10,000 people in the group with 52%

48% males

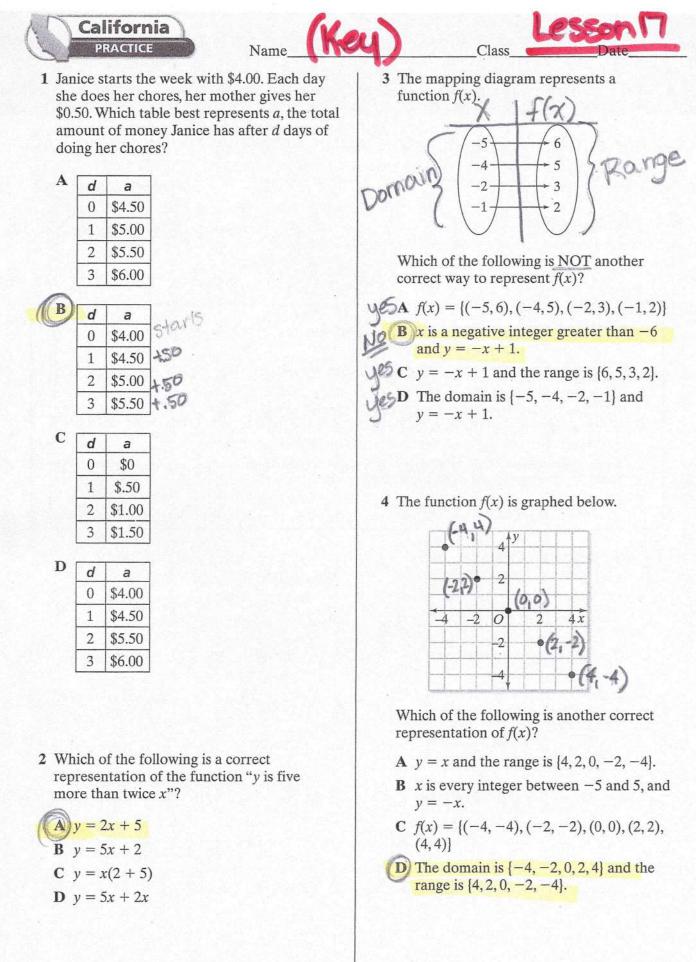
48% males

Standards Review-Lesson 16	
$\begin{array}{c} \hline 1 \\ 40x \\ \hline 60x \\ \hline \end{array} = \begin{array}{c} 1.120 \\ -1$	
3x + 2x = 120 5x = 120 5 = 5 x = 24 min.	
[A] 2) 90 Amount TOTALS Group 1 .52 X .52X Group 2 .48 (15,000-X) (7,20048X) Mixed Group .488 15,000 = 7,320	
52x + (7,20048x) = 7,320 .4x + $7200 = 7320$ -7200 -7200	
$\frac{.4x = 120}{.4}$	
X = 3,000	

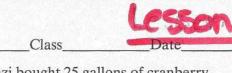
Standards Review -Lesson 16

Puve Water Amount 3) 9670 .96 .96x × 10 99 9.9 96.5% .965 (x+10) .965x+9.65 · 96x + 9,90= .95x+9,65  $\begin{array}{rrr} -9.65 & -9.65 \\ .96x + .25 = .965x \\ -.96x & -.960x \\ \end{array}$ <u>,25 = 005x</u> ,005 .005  $50 = \times$  60=Total [C] 4)  $\frac{1}{60} \times + \frac{1}{90} \times = 1.180$ 3x + 2x = 1805x = 180 5 5 x = 36

Standards Review-Lesson 16 [B]5) <u>1.8</u> + <u>1.8</u> = 1 ..8.6 x + .9 x = 1 ..83x + 2x = 1.85x = 1.8 X = .36Standards Review-Lesson 12 1) B 2.) A 3) B 4) D Standards Review-Lesson 18 1) D 2.) D 3.) C 4.) A Standards Review-Lesson 19 1) B 2.) C 3) B 4.) A and C 5) B 6.) A



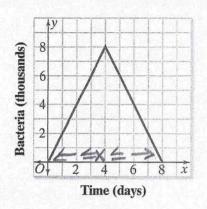
CA Standards Review



1 Find the domain and range of the function graphed below.

Name

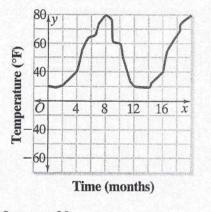
California PRACTICE



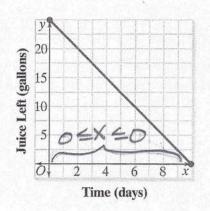
- A Domain:  $0 \le x \le 4$ ; Range:  $0 \le y \le 4$
- **B** Domain:  $0 \le x \le 8$ ; Range:  $0 \le y \le 4$
- **C** Domain:  $0 \le x \le 4$ ; Range:  $0 \le y \le 8$

**(D)** Domain:  $0 \le x \le 8$ ; Range:  $0 \le y \le 8$ 

2 The graph below shows the temperature recorded at a weather station during a period of several months. Which inequality best approximates the range of the function?



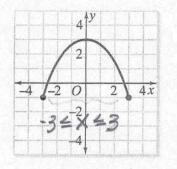
**A**  $0 \le x \le 20$  **B**  $0 \le y \le 20$  **C**  $20 \le x \le 80$ **D**  $20 \le y \le 80$  3 Ms. Drazi bought 25 gallons of cranberry juice for the juice machine at her office. The graph below shows how much juice was left over time.



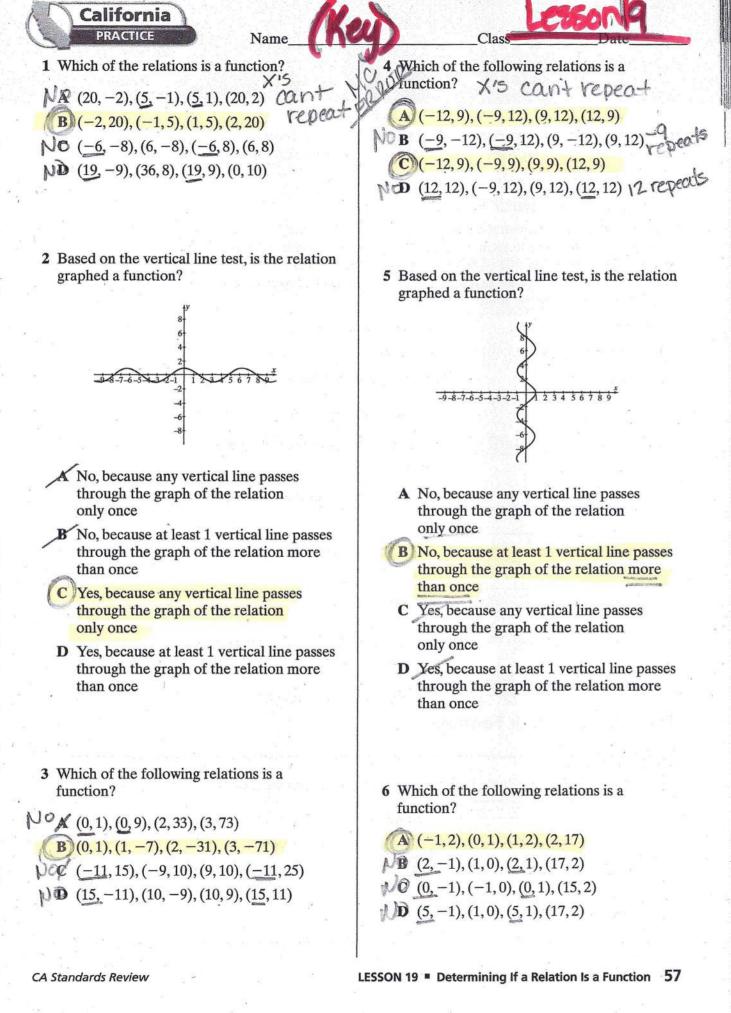
What is the domain of this function?

**A** 0 < x < 10 **B** 0 < y < 10 **C**  $0 \le x \le 10$ **D**  $0 \le y \le 10$ 

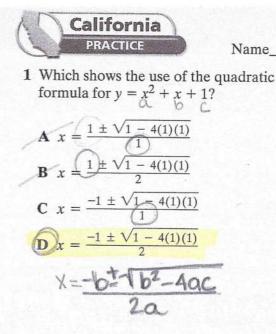
4 Determine the domain and range of the function graphed below.



A Domain:  $-3 \le x \le 3$ ; Range:  $-1 \le y \le 3$ B Domain:  $-3 \le x \le 3$ ; Range:  $0 \le y \le 3$ C Domain:  $0 \le x \le 3$ ; Range:  $-1 \le y \le 3$ D Domain:  $-1 \le x \le 3$ ; Range:  $-3 \le y \le 3$ 



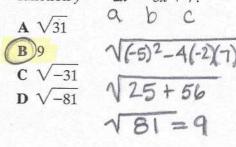
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- 2 What do you do to the standard form of a quadratic function to change the coefficient of  $x^2$  to 1?
  - A Multiply both sides of the equation by -1.
  - **B** Divide both sides of the equation by a.
  - C Multiply both sides of the equation by a.
  - **D** The coefficient is already 1.

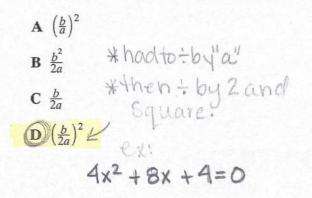
invisible x2 + bx+c=0

3 What does  $\sqrt{b^2 - 4ac}$  equal when using the quadratic formula to solve the quadratic function  $y = -2x^2 - 5x + 7$ ?



4 What term is added to both sides of the standard form when completing the square?

Class



5 Which shows the use of the quadratic formula for  $y = -6x^2 - 2x + 10$ ?

$$A x = \frac{6 \pm \sqrt{6 - 4(-2)(10)}}{-2}$$

$$B x = \frac{-2 \pm \sqrt{4 - 4(-6)(10)}}{12}$$

$$C x = \frac{2 \pm \sqrt{4 - 4(-6)(10)}}{-12} 2(-b)$$

$$D x = \frac{6 \pm \sqrt{36 - 4(-2)(10)}}{-4}$$

6 What is the denominator when using the quadratic formula to solve the quadratic function  $y = 10x^2 - x + 4?$  $\alpha \chi^2 - b + C$ A -20  $x = -b \pm \sqrt{b^2 - 4ac}$ **B** -2 C 8 D)20 2(10) = 20