

# MCAS MIXER



- 1 The Rent-a-Ride car rental agency charges a \$37 down payment. The table at the right shows the total cost of renting a car per day.

How much does it cost to rent a car for 7 days based upon the rate shown in the table?

- A. \$277                      C. \$163  
B. \$259                      D. \$126

Number of Days (x)	Total Cost in Dollars (y)
1	\$55
2	\$73
3	\$91
4	\$109

7.P.1

- 2 Luis painted a picture on a square canvas that is 12 inches long and 12 inches wide. He frames the painting with a frame that adds 2 inches to both the length and the width. What is the area of the painting with the frame?

- A. 144 square inches  
B. 168 square inches  
C. 169 square inches  
D. 196 square inches

7.M.3

- 3 Evaluate the expression below for  $c = 9$  and  $d = 7$ .

$$5 + (c^2 + d^2) \div 5$$

- A. 33  
B. 31  
C. 29  
D. 26

7.P.2

- 4 Emily's family is building a swimming pool in their backyard. The pool is  $w$  meters wide and  $w + 4$  meters long. If the perimeter of the pool is 24 meters, what is the length of the swimming pool?

- A. 3 meters  
B. 4 meters  
C. 6 meters  
D. 8 meters

7.P.4

- 5 The nearest star system to our own is Alpha Centauri. Alpha Centauri is 4.395 light years, or approximately 25.8 trillion miles, away from the Sun. Write 25.8 trillion in scientific notation.

- A.  $2.58 \times 10^{14}$   
B.  $2.58 \times 10^{13}$   
C.  $2.58 \times 10^{12}$   
D.  $2.58 \times 10^{11}$

7.N.3