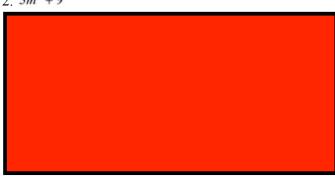
Mid-Chapter Quiz

Write a verbal expression for each algebraic expression.

1. $21 - x^3$

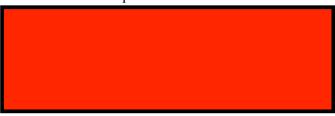


 $2.3m^5 + 9$



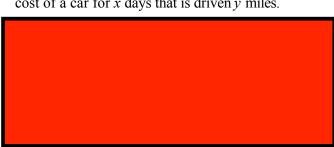
Write the algebraic expression for each verbal expression.

3. five more than *s* squared



4. four times y to the fourth power

5. CAR RENTAL The XYZ Car Rental Agency charges a flat rate of \$39 per day plus \$0.47 per mile driven. Write an algebraic expression for the rental cost of a car for x days that is driven y miles.



Evaluate each expression.

6. $24 \div 3 - 2 \cdot 3$



8.4(3+9)



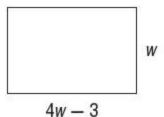
10. $\frac{1}{4+3(2^2)}$

11. AMUSEMENT PARK The costs tickets to a local amusement park are shown. Write and evaluate an expression to find the total cost for 5 adults and 8 children.

Adult \$45 Children

Mid-Chapter Quiz

12. **MULTIPLE CHOICE** Write an algebraic expression to represent the perimeter of the rectangle shown below. Then evaluate it to find the perimeter when w = 8 cm.

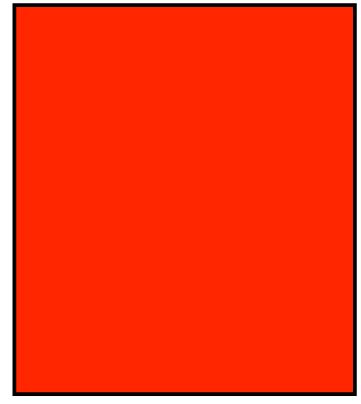


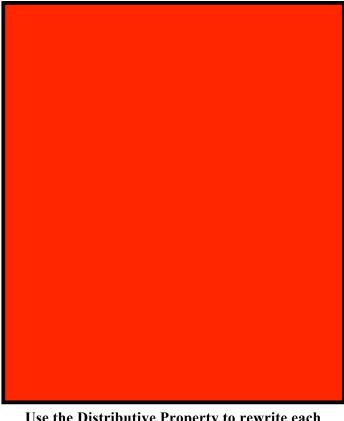
A 37 cm

B 232 cm

C 74 cm

D 45 cm





Use the Distributive Property to rewrite each expression. Then evaluate.

$$20.8(7-4)$$

SOLUTION:

$$8(7-4) = 8(7) - 8(4)$$

= $56 - 32$
= 24

Use the Distributive Property to rewrite each expression. Then simplify.

$$23.-5(3m-2)$$

SOLUTION:

$$-5(3m-2) = -5(3m) - (-5)(2)$$
$$= -5(3m) - (-10)$$
$$= -15m + 10$$

Mid-Chapter Quiz

24. **CAR WASH** A car wash chain has three locations. Use the information in the table below to write and evaluate an expression to estimate the total number of car washes sold over a 4-day period.

Location	Daily Car Washes
Location 1	145
Location 2	211
Location 3	184

