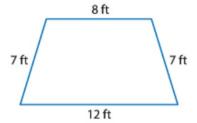


- **1.** Evaluate $x + y^2(2 + x)$ if x = 3 and y = -1. **8**
- **2.** Simplify -4(3a + b) 2(a 5b). -14a + 6b
- **3. MULTIPLE CHOICE** If 3m + 5 = 23, what is the value of 2m 3?
 - A 105
 - **B** 9
 - $C \frac{47}{3}$
 - **D** 6
- **4.** Solve $r = \frac{1}{2}m^2p$ for p. $p = \frac{2r}{m^2}$

Write an algebraic expression to represent each verbal expression.

- **5.** twice the difference of a number and 11 2(n-11)
- **6.** the product of the square of a number and 5 $5n^2$
- **7.** Evaluate 2|3y 8| + y if y = 2.5. **3.5**
- **8.** Solve $-2b > \frac{18-b}{5}$. Graph the solution set on a number line. **See margin.**
- 9. MONEY Carson has \$35 to spend at the water park. The admission price is \$25 and each soda is \$2.50. Write an inequality to show how many sodas he can buy. 35 ≥ 25 + 2.50s

14. GARDENING Andy is making 3 trapezoidal garden boxes for his backyard. Each trapezoid will be the size of the trapezoid below. He will place stone blocks around the borders of the boxes. How many feet of stones will Andy need? 102 ft



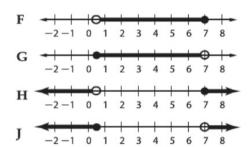
Solve each equation.

- **15.** |x+4|=3 **{-7, -1**}
- **16.** |3m+2|=1 $\{-1, -\frac{1}{3}\}$
- **17.** |3a+2|=-4
- **18.** |2t + 5| 7 = 4 **{-8, 3**}
- **19.** $|5n-2|-6=-3\left\{-\frac{1}{5},1\right\}$
- **20.** |p+6|+9=8 Ø
- **21. GEOMETRY** The volume of a cylinder is given leaves about 1017.88 cm³

- 100% + Q

THE AUTHISSION PINCE IS \$20 AND EACH SOUR IS \$2.00. Write an inequality to show how many sodas he can buy. $35 \ge 25 + 2.50s$

- **10.** Solve r 3 < -5 or 4r + 1 > 15. Graph the solution set. See margin.
- **11.** Solve $|p-4| \le 11$. Graph the solution set on a number line. See margin.
- 12. MULTIPLE CHOICE Which graph represents the solution set for $4 < 6t + 1 \le 43$?



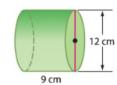
13. MONEY Sofia is buying new skis. She finds that the average price of skis is \$500 but the actual price could differ from the average by as much as \$250. Write and solve an absolute value inequality to describe this situation.

 $|p-500| \le 250$; $250 \le p \le 750$

21. GEOMETRY The volume of a cylinder is given by the formula $V = \pi r^2 h$. What is the volume of the cylinder below? about 1017.88 cm³

Glossary

Index



- **22.** Solve $-3b 5 \ge -6b 13$. Graph the solution set on a number line. See margin.
- **23.** Evaluate $\frac{3(x+y)}{4xy^2}$ if $x = \frac{2}{3}$ and y = -2. $-\frac{3}{8}$
- **24.** Name the set(s) of numbers to which $-\frac{1}{3}$ belongs.
- 25. MONEY The costs for making necklaces at two craft stores are shown in the table. For what quantity of beads does The Accessory Store have a better deal? Use the inequality 15 + 3.25b < 20 + 2.50b.

Shop	Cost per Chain	Cost per Bead
The Accessory Store	\$15	\$3.25
Finishing Touch	\$20	\$2.50

25. When you buy 6 or fewer beads, The Accessory Store is a better deal.







Additional Answer









