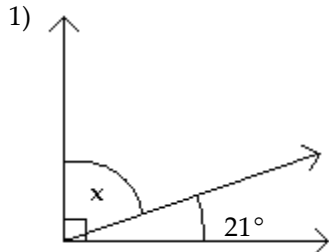Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

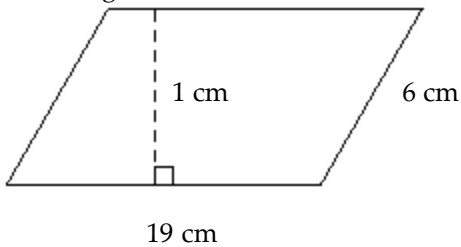**Find the measure of the indicated angle. Figure is not drawn to scale.**

1)

Find the measure of ∠x.

    A) 159°   B) 124°   C) 64°   D) 69°

Find the area of the geometric figure.

2) Parallelogram

1 cm

6 cm

19 cm

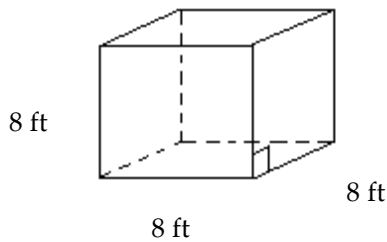   A) 114 sq cm   B) 190 sq cm   C) 25 sq cm   D) 19 sq cm

Find the volume of the solid.

3)

8 ft

8 ft

8 ft

    A) 512 cu ft   B) 24 cu ft   C) 64 cu ft   D) 128 cu ft
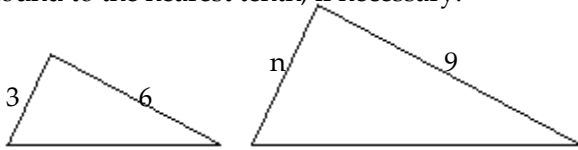
Find the square root.

4) $\sqrt{\dfrac{100}{361}}$

    A) $\dfrac{1}{2}$ B) $\dfrac{5}{18}$ C) $\dfrac{11}{19}$ D) $\dfrac{10}{19}$

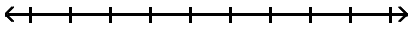**Given that the pair of triangles is similar, find the length of the side labeled n.**

5) Round to the nearest tenth, if necessary.

A) 2   B) 0.2   C) 18   D) 4.5

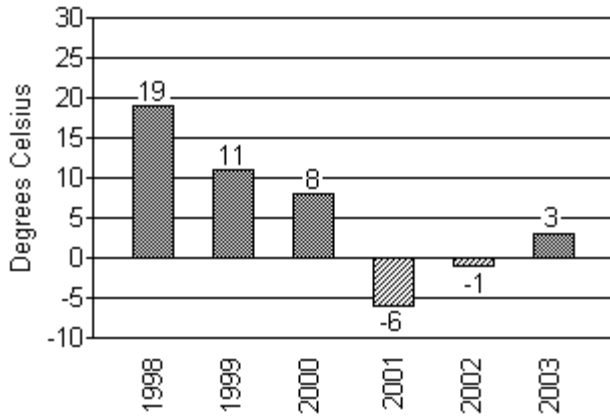**Graph the signed numbers in the list on a number line.**

6) −10, −8, −6, −4

A)   (-11 -10 -9 -8 -7 -6 -5 -4 -3 -2)

B)   (-11 -10 -9 -8 -7 -6 -5 -4 -3 -2)

C)   (-11 -10 -9 -8 -7 -6 -5 -4 -3 -2)

D)   (-11 -10 -9 -8 -7 -6 -5 -4 -3 -2)

Simplify.

7) $-7 + 3 - 5$

A) −5   B) 9   C) 1   D) −9

The bar graph below shows the temperatures recorded as the high temperature in Little City on Brianna's birthday for the indicated years.

8) In which year was the recorded temperature the second lowest?

A) 1999   B) 2002   C) 2001   D) 2000

Solve.

9) City A has an elevation of 10,733 feet above sea level while city B has an elevation of 17,243 feet below sea level. Find the difference in elevation between those two cities.

A) 28,076 ft   B) 6610 ft   C) 27,976 ft   D) 6510 ft

Divide.

10) $-84 \div (-7)$

A) $\dfrac{1}{12}$ B) -12 C) 2 D) 12

Evaluate the expression for the given replacement values.

11) $x - y + z$ for $x = 22,\, y = 7,\, z = 1$

A) 14 B) 17 C) 16 D) 30

Solve.

12) $-5 - 27 = m - 13$

A) -19 B) 19 C) 45 D) -45

Solve. First combine any like terms on each side of the equation.

13) $5y - y = -24$

A) 6 B) -6 C) 5 D) -5

Solve the equation.

14) $1 + 3x = 28$

A) 24 B) 8 C) 9 D) 28

Write the sentence as an equation. Use x to represent "a number."

15) Twice a number yields -6.

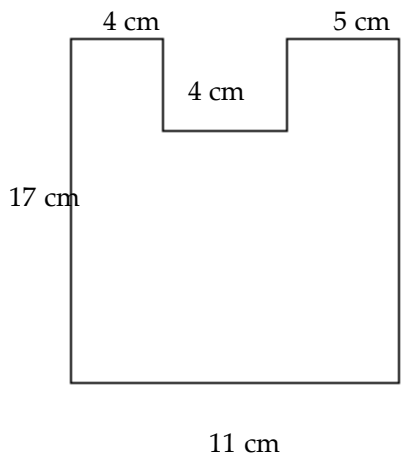A) $2x = -6$ B) $x^2 = -6$ C) $2 + x = -6$ D) $\dfrac{2}{x} = -6$

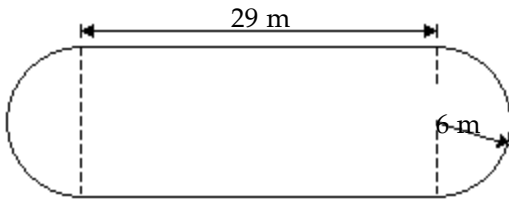SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Find the area of the geometric figure.

16)

Solve.

17) Find the perimeter. Approximate the result to the nearest tenth using 3.14 for π.

29 m

6 m

Simplify.

18) $\dfrac{|1-11|+\sqrt{9}}{-3(2)-(-3)}$

Solve.

19) Meredith got a monthly cable bill for a base rate of $18.10 , an additional $5.50 for a package of movie channels, a charge of $2.36 for taxes, and a credit of $14.60 to make up for a billing error the previous month. How much was the cable bill?

20) In accounting, a company's annual net income, I, can be computed using the relation $I = R - E$, where R is the total revenue for the year and E is the total of expenses for the year. At the end of its fiscal year, a corporation had a net income of $42,000,000. During the year, the corporation incurred a total of $773,000,000 in expenses. What was the corporation's total revenue for the year?

Answer Key
Testname: MATH070COMMONEXAM04SPRING 2009(CHAPTERS8,10,11)

1) D
2) D
3) A
4) D
5) D
6) B
7) D
8) B
9) C
10) D
11) C
12) A
13) B
14) C
15) A
16) 179 sq cm
17) 95.7 m
18) $-\dfrac{13}{3}$
19) $11.36
20) $815,000,000