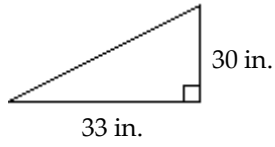


Name _____

Find the area.

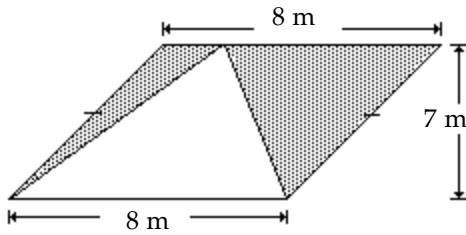
1)



- A) 495 in.² B) 450 in.² C) 990 in.² D) 247.5 in.²

Find the area of the shaded region.

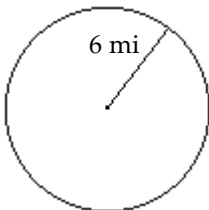
2)



- A) 14 m² B) 56 m²
C) 28 m² D) Not enough information given

Find the circumference of the circle. Use 3.14 or $\frac{22}{7}$ for π as indicated.

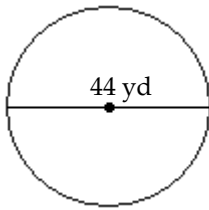
3) Use 3.14 for π .



- A) 37.68 mi B) 18.840 mi C) 113.040 mi D) 7.620 mi

Find the area of the circle. Use 3.14 or $\frac{22}{7}$ for π as indicated.

4) Use 3.14 for π .



A) 6079.04 yd²

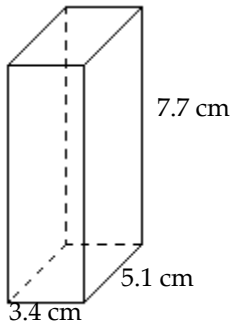
B) 276.32 yd²

C) 1519.76 yd²

D) 138.16 yd²

Find the volume.

5)



A) 133.518 cm²

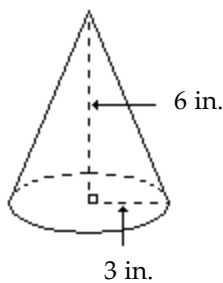
B) 42.67 cm³

C) 16.2 cm³

D) 133.518 cm³

Find the volume of the circular cone. Use 3.14 or $\frac{22}{7}$ for π as indicated. Round to the nearest whole number if necessary.

6) Use 3.14 for π .



A) 113 in.³

B) 85 in.³

C) 57 in.³

D) 38 in.³

Decide if the given number is a solution to the given equation.

7) $p - 12 = 2$; 14

A) No

B) Yes

Solve the equation using the addition principle.

8) $18 = -11 + x$

A) -7

B) -29

C) 29

D) 7

Solve the equation using the multiplication principle.

9) $4 = \frac{a}{-9}$

A) -1

B) -5

C) -36

D) -6

10) $-6a = 42$

A) -7

B) -48

C) 48

D) 1

Solve using the multiplication principle.

11) $-\frac{3}{7}p = \frac{2}{3}$

A) $\frac{14}{3}$

B) $-\frac{14}{9}$

C) $-\frac{9}{14}$

D) $\frac{14}{9}$

Solve the equation.

12) $58 = 7x - 5$

A) 13

B) 9

C) 60

D) 56

13) $-9b + 5 = -1 - 5b$

A) $-\frac{2}{3}$

B) $\frac{3}{2}$

C) $-\frac{7}{2}$

D) $\frac{2}{3}$

14) $5x - 3 + 7x - 6 = 7x + 5x + 9$

A) No solution

B) 0

C) All real numbers

D) 9

15) $2(8x - 20) = 4(10x - 4)$

A) -7

B) 1

C) $\frac{1}{7}$

D) -1

16) $4[3 - 3(x + 1)] + 1 = 2(-19 - x) + 2x + 19$

A) 5

B) $\frac{5}{6}$

C) $\frac{5}{3}$

D) 0

Evaluate the formula for the given values of the variables.

17) When all n teams in a league play every other team twice, a total of N games are played, where $N = n^2 - n$. A basketball league has 6 teams and all teams play each other twice. How many games are played?

A) 42 games

B) 6 games

C) 18 games

D) 30 games

Solve.

18) $A = \frac{1}{2}bh$ for h

A) $h = \frac{Ab}{2}$

B) $h = \frac{2A}{b}$

C) $h = \frac{A}{2b}$

D) $h = \frac{b}{2A}$

Solve the problem. Round to the nearest hundredth, if necessary.

19) What is 5% of 600?

- A) 0.3 B) 3 C) 300 D) 30

20) 18 is 4% of what number?

- A) 4500 B) 45 C) 450 D) 72

Solve the problem. Round to the nearest tenth of a percent.

21) 944 is what percent of 795?

- A) 118.7% B) 0.1% C) 84.2% D) 1.2%

Solve the problem.

22) The sum of three consecutive odd integers is 267. Find the integers.

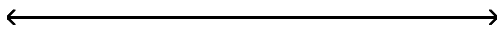
- A) 87, 89, 91 B) 82, 83, 84 C) 91, 93, 95 D) 89, 91, 93

23) A pie-shaped (triangular) lake-front lot has a perimeter of 1700 feet. One side is 100 feet longer than the shortest side, while the third side is 400 feet longer than the shortest side. Find the lengths of all three sides.

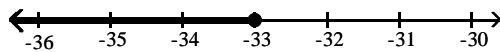
- A) 500 ft, 500 ft, 500 ft B) 100 ft, 200 ft, 300 ft C) 500 ft, 600 ft, 900 ft D) 400 ft, 500 ft, 800 ft

Solve using the addition principle. Graph and write set-builder notation for the answer.

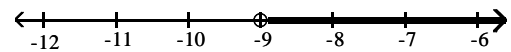
24) $-5n - 12 > -6n - 21$



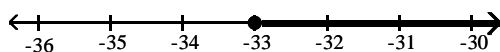
A) $\{n \mid n \leq -33\}$



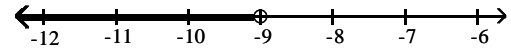
B) $\{n \mid n > -9\}$



C) $\{n \mid n \geq -33\}$



D) $\{n \mid n < -9\}$



Solve using the addition and multiplication principles.

25) $24x + 36 > 4(5x + 11)$

- A) $\{x \mid x \leq 2\}$ B) $\{x \mid x < 2\}$ C) $\{x \mid x > 2\}$ D) $\{x \mid x \geq 2\}$

Translate the sentence to an algebraic inequality.

26) John weighs at least 133 pounds.

- A) $x > 133$ B) $x \leq 133$ C) $x \geq 133$ D) $x < 133$

Solve the problem.

27) Jim has gotten scores of 94 and 88 on his first two tests. What score must he get on his third test to keep an average of 85 or greater?

A) At least 73

B) At least 91

C) At least 72

D) At least 89.0

Answer Key

Testname: M0308 REVIEW 2

- 1) A
- 2) C
- 3) A
- 4) C
- 5) D
- 6) C
- 7) B
- 8) C
- 9) C
- 10) A
- 11) B
- 12) B
- 13) B
- 14) A
- 15) D
- 16) C
- 17) D
- 18) B
- 19) D
- 20) C
- 21) A
- 22) A
- 23) D
- 24) B
- 25) C
- 26) C
- 27) A