

Add/Subtracting Fractions and Mixed Numbers

Date _____ Period _____

Evaluate each expression.

1) $\frac{5}{4} - \frac{3}{4}$

2) $\frac{3}{2} - \frac{1}{2}$

3) $\frac{2}{5} + \frac{4}{5}$

4) $\frac{1}{3} - \frac{1}{3}$

5) $6 - \frac{1}{6}$

6) $\frac{1}{2} - \frac{1}{2}$

7) $\frac{1}{5} + \frac{1}{5}$

8) $\frac{7}{6} - \frac{5}{6}$

9) $\left(-\frac{4}{5}\right) - \frac{7}{8}$

10) $\frac{1}{3} - \left(-\frac{5}{3}\right)$

11) $\left(-\frac{1}{3}\right) + \frac{3}{8}$

12) $\left(-\frac{10}{7}\right) + \frac{1}{6}$

13) $\frac{9}{5} + \left(-\frac{4}{3}\right)$

14) $2 - \frac{13}{8}$

$$15) \frac{9}{5} - \frac{5}{8}$$

$$16) \left(-\frac{4}{3}\right) - \left(-\frac{3}{2}\right)$$

$$17) (-1) + \left(-2\frac{2}{5}\right)$$

$$18) \left(-3\frac{3}{5}\right) - 4\frac{2}{5}$$

$$19) 3\frac{6}{7} + \left(-1\frac{1}{7}\right)$$

$$20) 1\frac{2}{7} + \left(-3\frac{4}{7}\right)$$

$$21) 2\frac{1}{3} + \left(-1\frac{2}{3}\right)$$

$$22) \left(-1\frac{3}{4}\right) + \left(-3\frac{3}{4}\right)$$

$$23) \left(-1\frac{7}{8}\right) + \left(-3\frac{1}{2}\right)$$

$$24) \left(-2\frac{7}{8}\right) + \left(-1\frac{1}{2}\right)$$

$$25) \left(-2\frac{5}{6}\right) - \left(-1\frac{1}{4}\right)$$

$$26) \left(-3\frac{5}{8}\right) - 4\frac{2}{5}$$

$$27) 1\frac{2}{5} - \left(-3\frac{3}{4}\right)$$

$$28) 2\frac{4}{5} - \frac{5}{8}$$

Add/Subtracting Fractions and Mixed Numbers

Date _____ Period _____

Evaluate each expression.

1) $\frac{5}{4} - \frac{3}{4}$

$$\frac{1}{2}$$

2) $\frac{3}{2} - \frac{1}{2}$

$$1$$

3) $\frac{2}{5} + \frac{4}{5}$

$$\frac{6}{5}$$

4) $\frac{1}{3} - \frac{1}{3}$

$$0$$

5) $6 - \frac{1}{6}$

$$\frac{35}{6}$$

6) $\frac{1}{2} - \frac{1}{2}$

$$0$$

7) $\frac{1}{5} + \frac{1}{5}$

$$\frac{2}{5}$$

8) $\frac{7}{6} - \frac{5}{6}$

$$\frac{1}{3}$$

9) $\left(-\frac{4}{5}\right) - \frac{7}{8}$

$$-\frac{67}{40}$$

10) $\frac{1}{3} - \left(-\frac{5}{3}\right)$

$$2$$

11) $\left(-\frac{1}{3}\right) + \frac{3}{8}$

$$\frac{1}{24}$$

12) $\left(-\frac{10}{7}\right) + \frac{1}{6}$

$$-\frac{53}{42}$$

13) $\frac{9}{5} + \left(-\frac{4}{3}\right)$

$$\frac{7}{15}$$

14) $2 - \frac{13}{8}$

$$\frac{3}{8}$$

$$15) \frac{9}{5} - \frac{5}{8}$$

$$\frac{47}{40}$$

$$16) \left(-\frac{4}{3}\right) - \left(-\frac{3}{2}\right)$$

$$\frac{1}{6}$$

$$17) (-1) + \left(-2\frac{2}{5}\right)$$

$$-3\frac{2}{5}$$

$$18) \left(-3\frac{3}{5}\right) - 4\frac{2}{5}$$

$$-8$$

$$19) 3\frac{6}{7} + \left(-1\frac{1}{7}\right)$$

$$2\frac{5}{7}$$

$$20) 1\frac{2}{7} + \left(-3\frac{4}{7}\right)$$

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

$$21) 2\frac{1}{3} + \left(-1\frac{2}{3}\right)$$

$$\frac{2}{3}$$

$$22) \left(-1\frac{3}{4}\right) + \left(-3\frac{3}{4}\right)$$

$$-5\frac{1}{2}$$

$$23) \left(-1\frac{7}{8}\right) + \left(-3\frac{1}{2}\right)$$

$$-5\frac{3}{8}$$

$$24) \left(-2\frac{7}{8}\right) + \left(-1\frac{1}{2}\right)$$

$$-4\frac{3}{8}$$

$$25) \left(-2\frac{5}{6}\right) - \left(-1\frac{1}{4}\right)$$

$$-1\frac{7}{12}$$

$$26) \left(-3\frac{5}{8}\right) - 4\frac{2}{5}$$

$$-8\frac{1}{40}$$

$$27) 1\frac{2}{5} - \left(-3\frac{3}{4}\right)$$

$$5\frac{3}{20}$$

$$28) 2\frac{4}{5} - \frac{5}{8}$$

$$2\frac{7}{40}$$

Adding/Subtracting Integers

Date_____ Period____

Find each sum.

1) $(-12) + 7$

2) $(-10) + (-7)$

3) $(-6) + 12$

4) $8 + 7$

5) $3 + 4$

6) $(-45) + 9$

7) $(-1) + (-46)$

8) $(-30) + 10$

9) $(-34) + 50$

10) $38 + (-5)$

Find each difference.

11) $2 - (-2)$

12) $(-1) - 10$

13) $8 - 7$

14) $(-8) - (-6)$

15) $11 - 4$

16) $48 - (-31)$

17) $18 - 41$

18) $(-38) - 30$

19) $(-1) - (-3)$

20) $(-1) - (-40)$

Evaluate each expression.

21) $(-10) - 47$

22) $(-29) - 29$

23) $13 + (-29)$

24) $38 + 22$

25) $(-32) - 44$

26) $(-12) + (-11)$

27) $2 + 15 + 4$

28) $16 + (-13) + 5$

29) $2 - (-9) - 8$

30) $10 + 3 - (-8)$

Adding/Subtracting Integers

Date_____ Period____

Find each sum.

1) $(-12) + 7$

 -5

2) $(-10) + (-7)$

 -17

3) $(-6) + 12$

 6

4) $8 + 7$

 15

5) $3 + 4$

 7

6) $(-45) + 9$

 -36

7) $(-1) + (-46)$

 -47

8) $(-30) + 10$

 -20

9) $(-34) + 50$

 16

10) $38 + (-5)$

 33 **Find each difference.**

11) $2 - (-2)$

 4

12) $(-1) - 10$

 -11

13) $8 - 7$

 1

14) $(-8) - (-6)$

 -2

15) $11 - 4$

7

16) $48 - (-31)$

79

17) $18 - 41$

-23

18) $(-38) - 30$

-68

19) $(-1) - (-3)$

2

20) $(-1) - (-40)$

39

Evaluate each expression.

21) $(-10) - 47$

-57

22) $(-29) - 29$

-58

23) $13 + (-29)$

-16

24) $38 + 22$

60

25) $(-32) - 44$

-76

26) $(-12) + (-11)$

-23

27) $2 + 15 + 4$

21

28) $16 + (-13) + 5$

8

29) $2 - (-9) - 8$

3

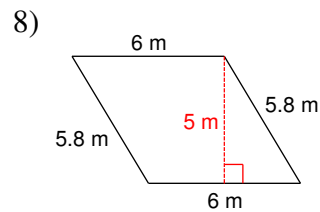
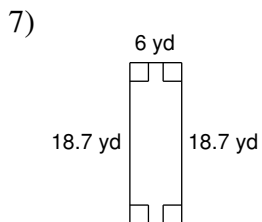
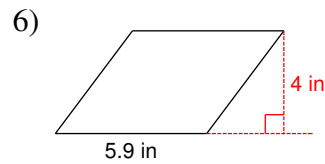
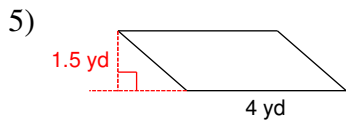
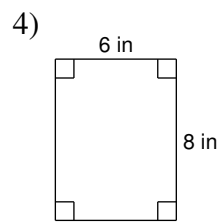
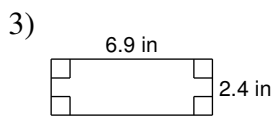
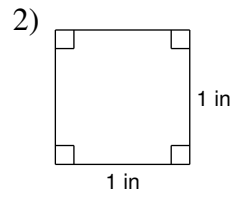
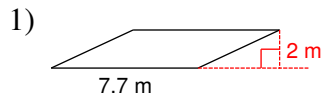
30) $10 + 3 - (-8)$

21

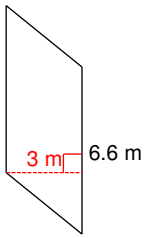
Area of Squares, Rectangles, and Parallelograms

Date _____ Period _____

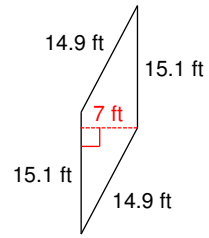
Find the area of each.



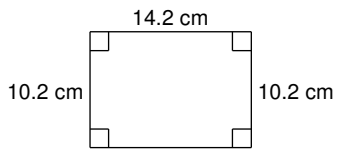
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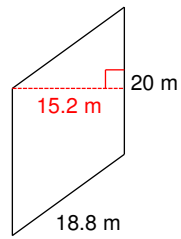
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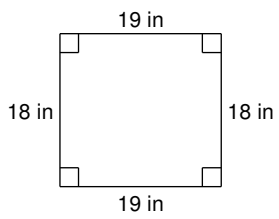
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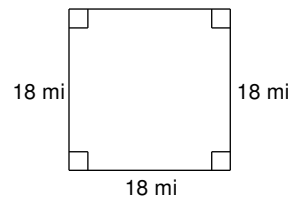
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13)



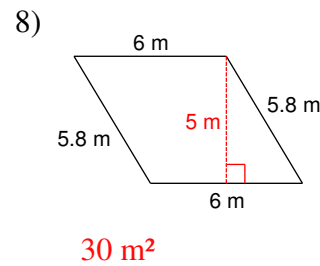
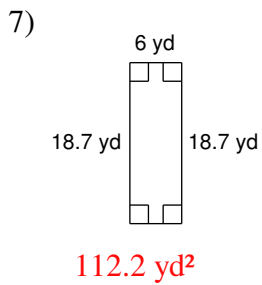
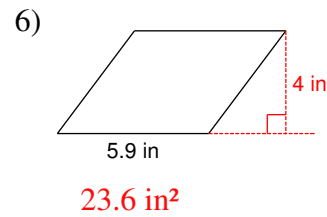
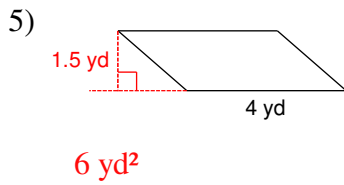
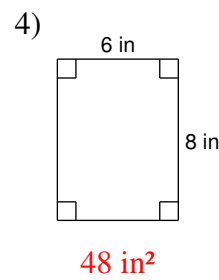
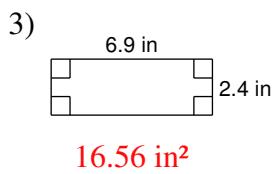
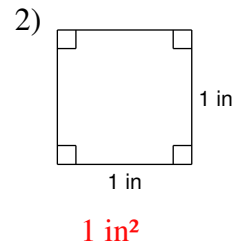
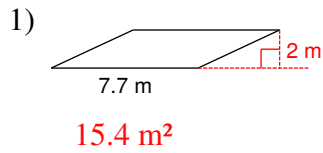
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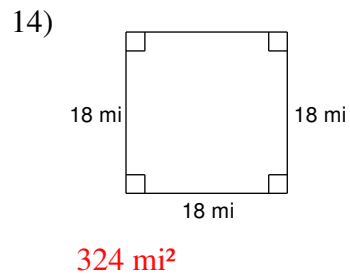
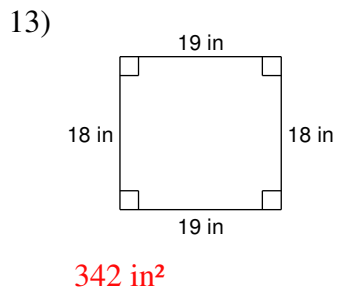
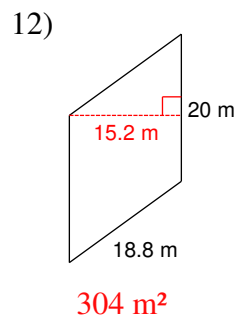
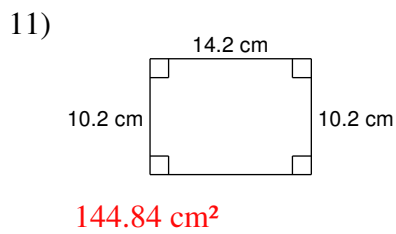
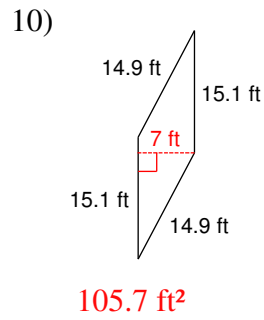
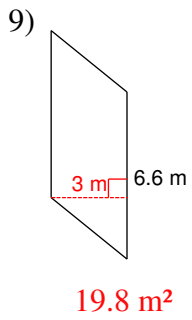


Area of Squares, Rectangles, and Parallelograms

Date _____ Period _____

Find the area of each.



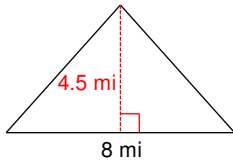


Area of Triangles

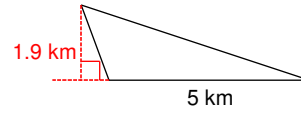
Date _____ Period _____

Find the area of each.

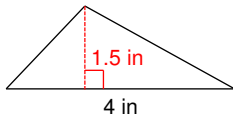
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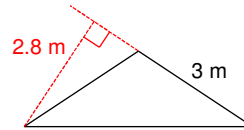
2)



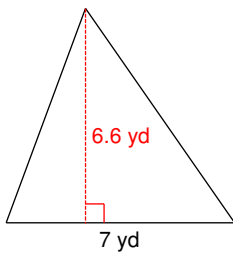
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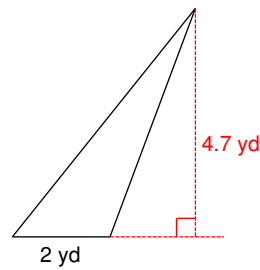
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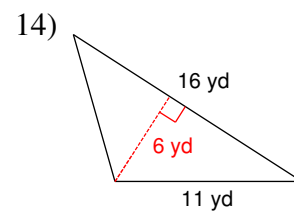
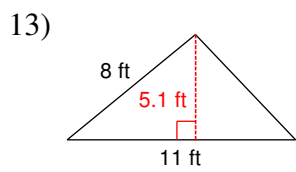
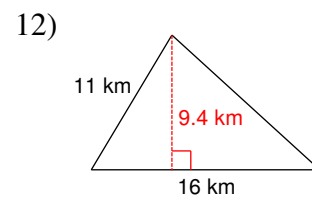
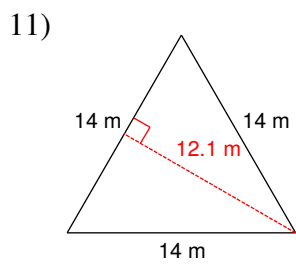
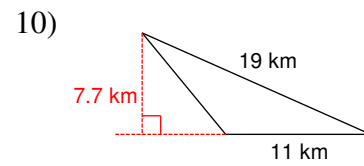
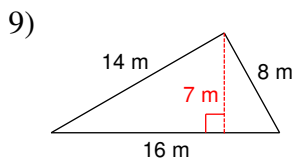
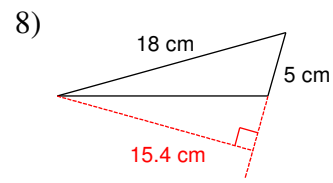
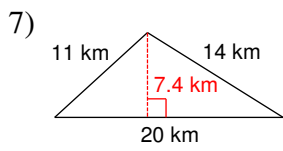


5)



6)

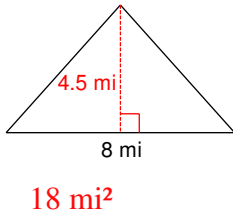




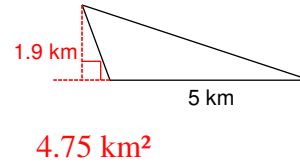
Area of Triangles

Find the area of each.

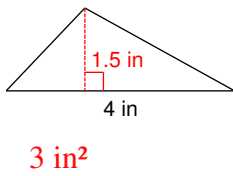
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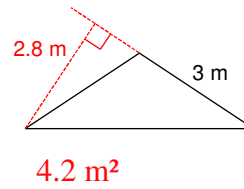
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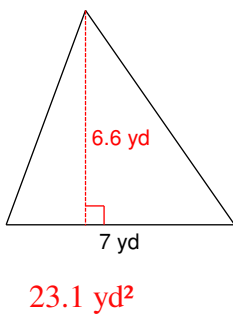
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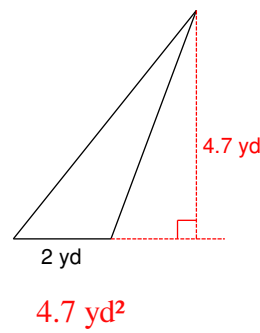
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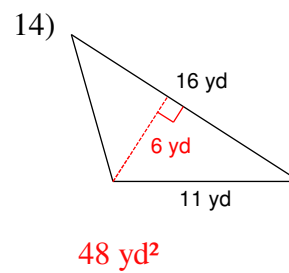
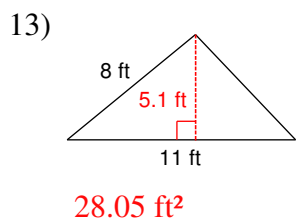
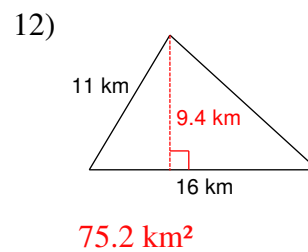
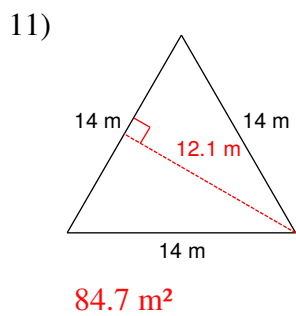
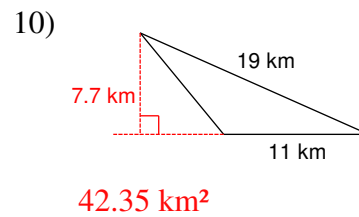
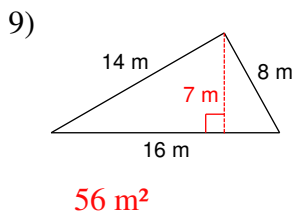
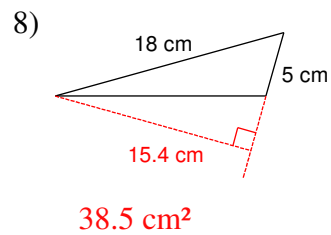
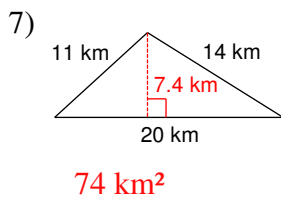


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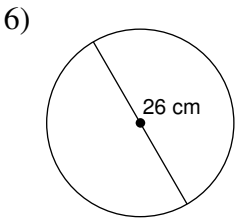
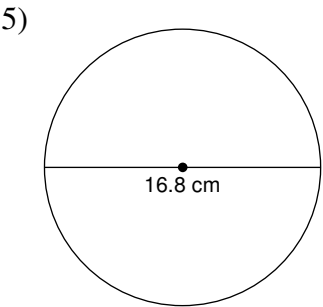
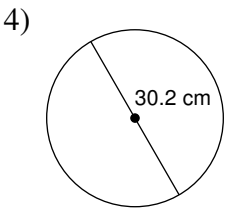
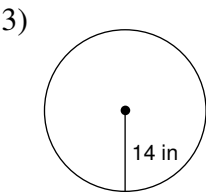
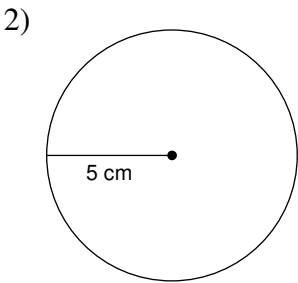
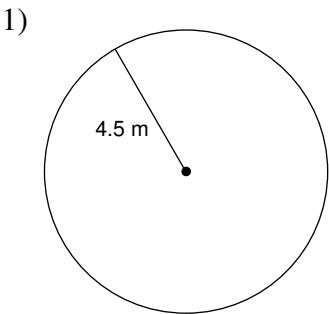
6)





Circles

Find the circumference of each circle. Round to the nearest tenth.

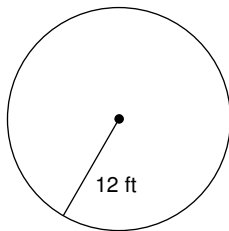


7) radius = 12 yd

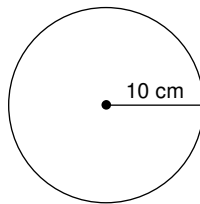
8) radius = 5.5 mi

Find the area of each. Round to the nearest tenth.

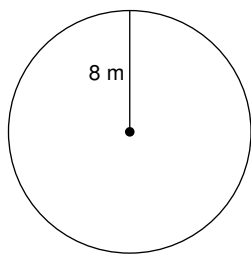
9)



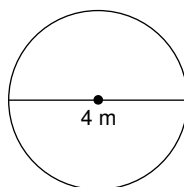
10)



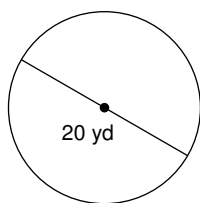
11)



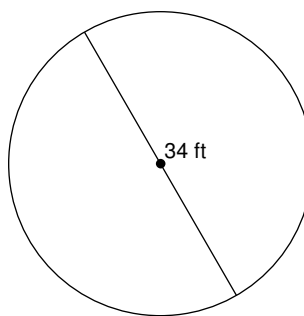
12)



13)



14)



15) radius = 8 ft

16) radius = 5 cm

Find the diameter of each circle.

17) area = 4π in²

18) area = 49π yd²

19) circumference = 162π yd

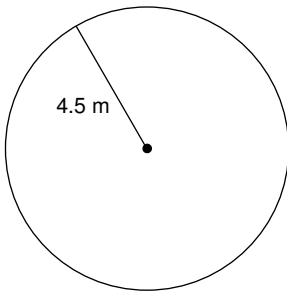
20) circumference = 30π yd

Circles

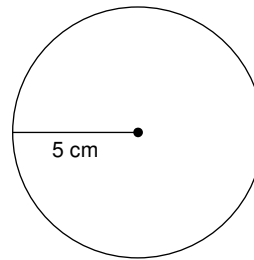
Date _____ Period _____

Find the circumference of each circle. Round to the nearest tenth.

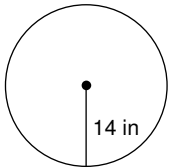
1)

**28.3 m**

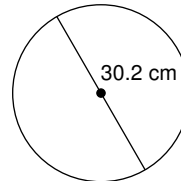
2)

**31.4 cm**

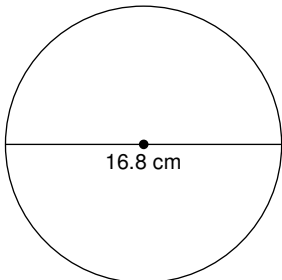
3)

**88 in**

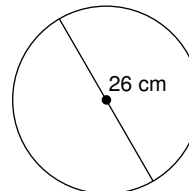
4)

**94.9 cm**

5)

**52.8 cm**

6)

**81.7 cm**

7) radius = 12 yd

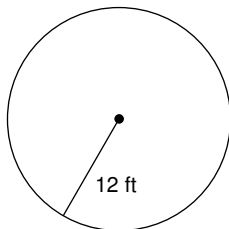
75.4 yd

8) radius = 5.5 mi

34.6 mi

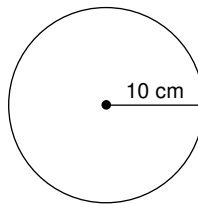
Find the area of each. Round to the nearest tenth.

9)



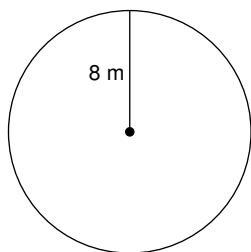
452.4 ft²

10)



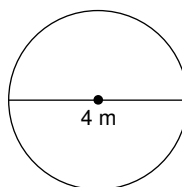
314.2 cm²

11)



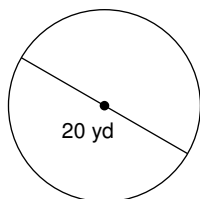
201.1 m²

12)



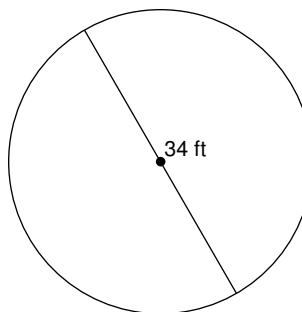
12.6 m²

13)



314.2 yd²

14)



907.9 ft²

15) radius = 8 ft

201.1 ft²

16) radius = 5 cm

78.5 cm²

Find the diameter of each circle.

17) area = 4π in²

4 in

18) area = 49π yd²

14 yd

19) circumference = 162π yd

162 yd

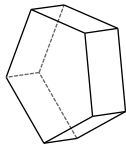
20) circumference = 30π yd

30 yd

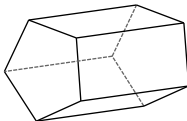
Classifying Solids

Name each figure.

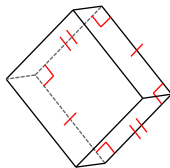
1)



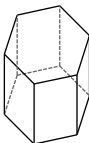
2)



3)



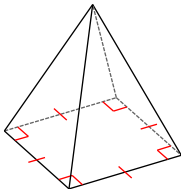
4)



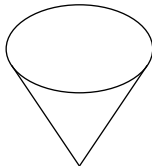
5)



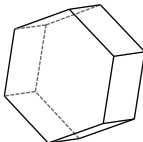
6)



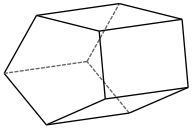
7)



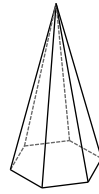
8)



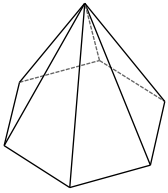
9)



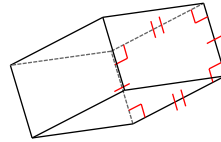
10)



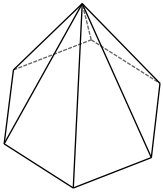
11)



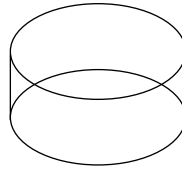
12)



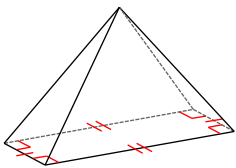
13)



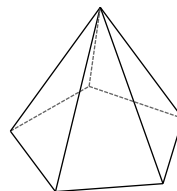
14)



15)



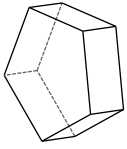
16)



Classifying Solids

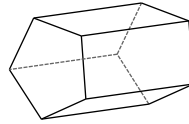
Name each figure.

1)



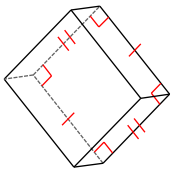
pentagonal prism

2)



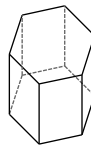
pentagonal prism

3)



rectangular prism

4)



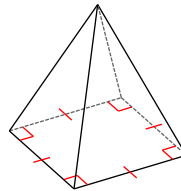
hexagonal prism

5)



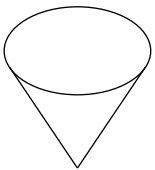
cone

6)



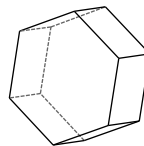
square pyramid

7)



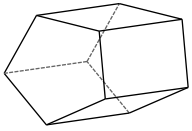
cone

8)



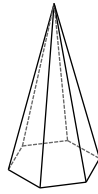
hexagonal prism

9)



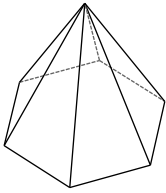
pentagonal prism

10)



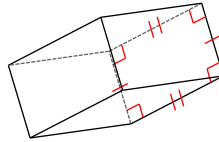
hexagonal pyramid

11)



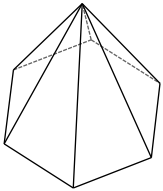
hexagonal pyramid

12)



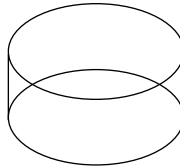
rectangular prism

13)



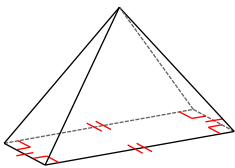
hexagonal pyramid

14)



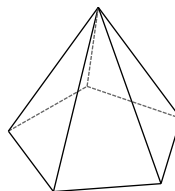
cylinder

15)



rectangular pyramid

16)

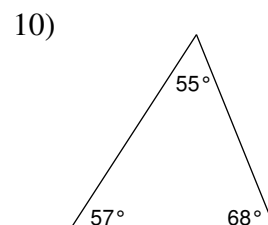
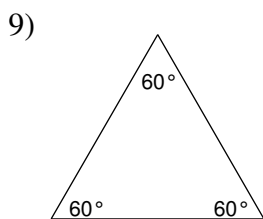
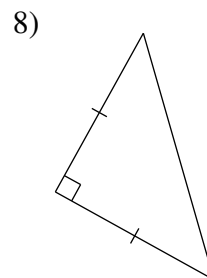
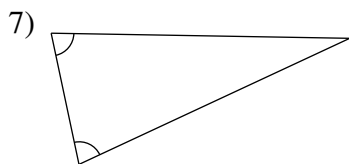
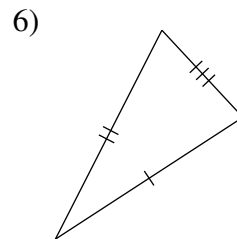
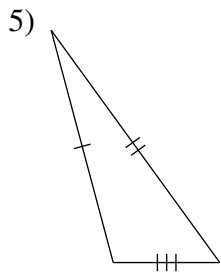
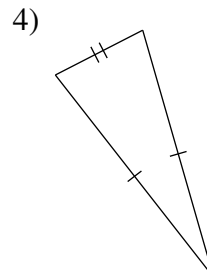
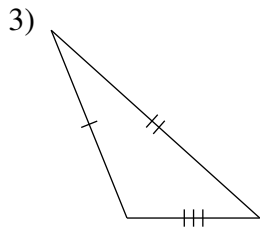
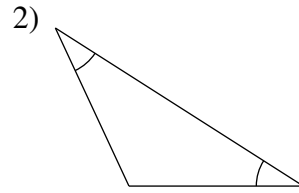
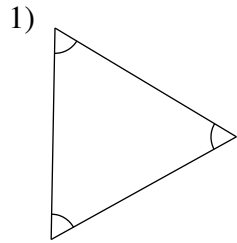


pentagonal pyramid

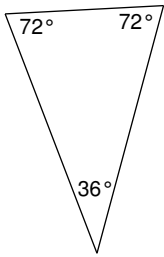
Classifying Triangles and Quadrilaterals

Date _____ Period _____

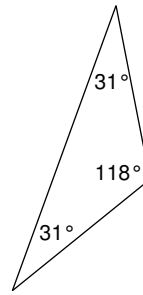
Classify each triangle by its angles and sides.



11)

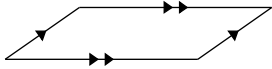


12)

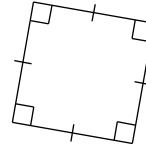


Classify each quadrilateral with the name that best describes it.

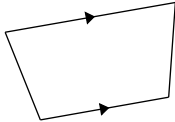
13)



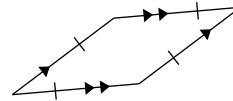
14)



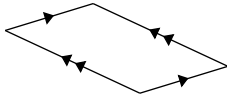
15)



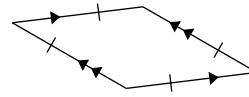
16)



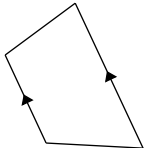
17)



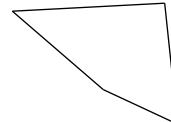
18)



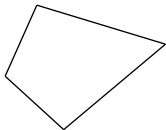
19)



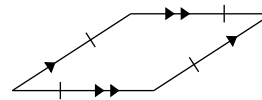
20)



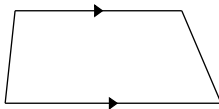
21)



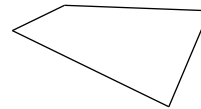
22)



23)



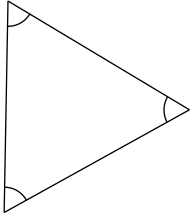
24)



Classifying Triangles and Quadrilaterals

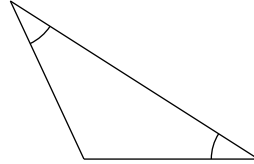
Classify each triangle by its angles and sides.

1)



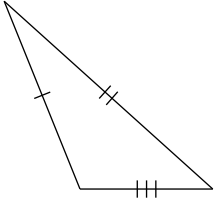
equilateral

2)



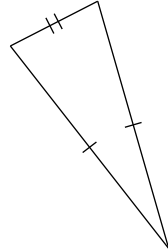
obtuse isosceles

3)



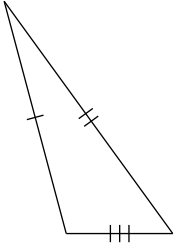
obtuse scalene

4)



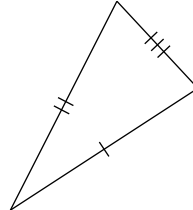
acute isosceles

5)



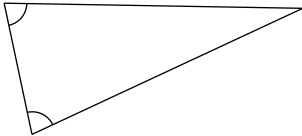
obtuse scalene

6)



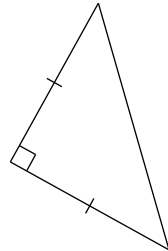
acute scalene

7)



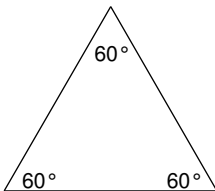
acute isosceles

8)



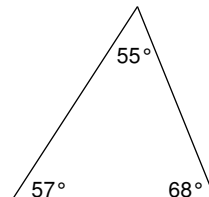
right isosceles

9)



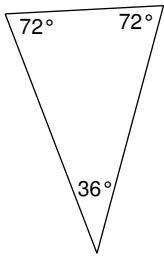
equilateral

10)



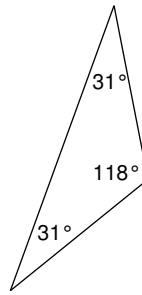
acute scalene

11)



acute isosceles

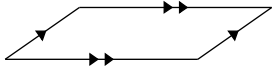
12)



obtuse isosceles

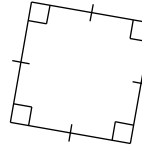
Classify each quadrilateral with the name that best describes it.

13)



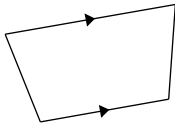
Parallelogram

14)



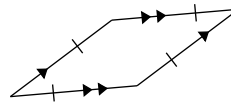
Square

15)



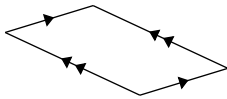
Trapezoid

16)



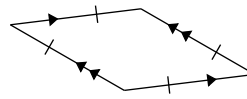
Rhombus

17)



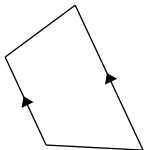
Parallelogram

18)



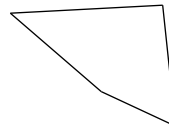
Rhombus

19)



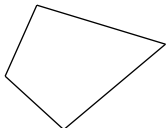
Trapezoid

20)



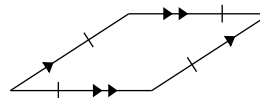
Quadrilateral

21)



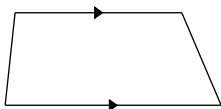
Quadrilateral

22)



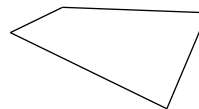
Rhombus

23)



Trapezoid

24)



Quadrilateral

Evaluating Variable Expressions

Date_____ Period____

Evaluate each using the values given.

1) $n^2 - m$; use $m = 7$, and $n = 8$

2) $8(x - y)$; use $x = 5$, and $y = 2$

3) $yx \div 2$; use $x = 7$, and $y = 2$

4) $m - n \div 4$; use $m = 5$, and $n = 8$

5) $x - y + 6$; use $x = 6$, and $y = 1$

6) $z + x^3$; use $x = 1$, and $z = 19$

7) $y + yx$; use $x = 15$, and $y = 8$

8) $q \div 6 + p$; use $p = 10$, and $q = 12$

9) $x + 8 - y$; use $x = 20$, and $y = 17$

10) $15 - (m + p)$; use $m = 3$, and $p = 10$

11) $10 - x + y \div 2$; use $x = 5$, and $y = 2$

12) $p - 2 + qp$; use $p = 7$, and $q = 4$

13) $zy + 4y$; use $y = 5$, and $z = 2$

14) $b(a + b) + a$; use $a = 9$, and $b = 4$

15) $p^2 \div 4 - m$; use $m = 3$, and $p = 4$

16) $x(y \div 3)^2$; use $x = 4$, and $y = 9$

17) $4 + m + n - m$; use $m = 4$, and $n = 9$

18) $qp + q - p$; use $p = 7$, and $q = 3$

19) $mn \div 6 + 10$; use $m = 7$, and $n = 6$

20) $h + j(j - h)$; use $h = 2$, and $j = 6$

21) $(b - 1)^2 + a^2$; use $a = 6$, and $b = 1$

22) $y(x - (9 - 4y))$; use $x = 4$, and $y = 2$

23) $x - (x - (x - y^3))$; use $x = 9$, and $y = 1$

24) $j(h - 9)^3 + 2$; use $h = 9$, and $j = 8$

Evaluating Variable Expressions

Evaluate each using the values given.

1) $n^2 - m$; use $m = 7$, and $n = 8$

57

2) $8(x - y)$; use $x = 5$, and $y = 2$

24

3) $yx \div 2$; use $x = 7$, and $y = 2$

7

4) $m - n \div 4$; use $m = 5$, and $n = 8$

3

5) $x - y + 6$; use $x = 6$, and $y = 1$

11

6) $z + x^3$; use $x = 1$, and $z = 19$

20

7) $y + yx$; use $x = 15$, and $y = 8$

128

8) $q \div 6 + p$; use $p = 10$, and $q = 12$

12

9) $x + 8 - y$; use $x = 20$, and $y = 17$

11

10) $15 - (m + p)$; use $m = 3$, and $p = 10$

2

11) $10 - x + y \div 2$; use $x = 5$, and $y = 2$

6

12) $p - 2 + qp$; use $p = 7$, and $q = 4$

33

13) $zy + 4y$; use $y = 5$, and $z = 2$

30

14) $b(a + b) + a$; use $a = 9$, and $b = 4$

61

15) $p^2 \div 4 - m$; use $m = 3$, and $p = 4$

1

16) $x(y \div 3)^2$; use $x = 4$, and $y = 9$

36

17) $4 + m + n - m$; use $m = 4$, and $n = 9$

13

18) $qp + q - p$; use $p = 7$, and $q = 3$

17

19) $mn \div 6 + 10$; use $m = 7$, and $n = 6$

17

20) $h + j(j - h)$; use $h = 2$, and $j = 6$

26

21) $(b - 1)^2 + a^2$; use $a = 6$, and $b = 1$

36

22) $y(x - (9 - 4y))$; use $x = 4$, and $y = 2$

6

23) $x - (x - (x - y^3))$; use $x = 9$, and $y = 1$

8

24) $j(h - 9)^3 + 2$; use $h = 9$, and $j = 8$

2

Fractions, Decimals, and Percents

Date_____ Period____

Write each as a decimal. Round to the thousandths place.

1) 90%

2) 30%

3) 115.9%

4) 9%

5) 7%

6) 65%

7) 0.3%

8) 445%

Write each as a percent. Round to the nearest tenth of a percent.

9) 0.452

10) 0.006

11) 0.002

12) 0.05

13) 4.78

14) 0.1

15) 3.63

16) 0.03

Write each as a fraction.

17) 25%

18) 70%

19) 93%

20) 58%

21) 50%

22) $66.\overline{6}\%$

23) 20%

24) 80%

25) 71%

26) 30%

Write each as a percent. Use repeating decimals when necessary.

27) $\frac{1}{2}$

28) $\frac{1}{8}$

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

30) $\frac{1}{100}$

31) $2\frac{1}{10}$

32) $\frac{3}{8}$

33) $\frac{1}{10}$

34) $\frac{87}{100}$

Fractions, Decimals, and Percents

Date _____ Period _____

Write each as a decimal. Round to the thousandths place.

1) 90%

0.9

2) 30%

0.3

3) 115.9%

1.159

4) 9%

0.09

5) 7%

0.07

6) 65%

0.65

7) 0.3%

0.003

8) 445%

4.45

Write each as a percent. Round to the nearest tenth of a percent.

9) 0.452

45.2%

10) 0.006

0.6%

11) 0.002

0.2%

12) 0.05

5%

13) 4.78

478%

14) 0.1

10%

15) 3.63

363%

16) 0.03

3%

Write each as a fraction.

17) 25%

$$\frac{1}{4}$$

18) 70%

$$\frac{7}{10}$$

19) 93%

$$\frac{93}{100}$$

20) 58%

$$\frac{29}{50}$$

21) 50%

$$\frac{1}{2}$$

22) $66.\overline{6}\%$

$$\frac{2}{3}$$

23) 20%

$$\frac{1}{5}$$

24) 80%

$$\frac{4}{5}$$

25) 71%

$$\frac{71}{100}$$

26) 30%

$$\frac{3}{10}$$

Write each as a percent. Use repeating decimals when necessary.

27) $\frac{1}{2}$

$$50\%$$

28) $\frac{1}{8}$

$$12.5\%$$

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

$$66.\overline{6}\%$$

30) $\frac{1}{100}$

$$1\%$$

31) $2\frac{1}{10}$

$$210\%$$

32) $\frac{3}{8}$

$$37.5\%$$

33) $\frac{1}{10}$

$$10\%$$

34) $\frac{87}{100}$

$$87\%$$

Greatest Common Factor

Find the GCF of each.

1) 39, 6

2) 24, 28

3) 40, 10

4) $39v$, $30uv$

5) $35n^2m$, $21m^2n$

6) $30y^3$, $20y^2$

7) 54, 45

8) 25, 55

9) 68, 34

10) 54, 27

11) 55, 75

12) $66yx$, $30x^2y$

13) $60y$, $56x^2$

14) $36xy^3$, $24y^2$

15) $18y^2$, $54y^2$

16) $80x^3$, $30yx^2$

17) $105x$, $30yx$, $75x$

18) $140n$, $140m^2$, $80m^2$

Greatest Common Factor

Find the GCF of each.

1) 39, 6

3

2) 24, 28

4

3) 40, 10

10

4) $39v$, $30uv$

 $3v$

5) $35n^2m$, $21m^2n$

 $7nm$

6) $30y^3$, $20y^2$

 $10y^2$

7) 54, 45

9

8) 25, 55

5

9) 68, 34

34

10) 54, 27

27

11) 55, 75

5

12) $66yx$, $30x^2y$

 $6yx$

13) $60y$, $56x^2$

4

14) $36xy^3$, $24y^2$

 $12y^2$

15) $18y^2$, $54y^2$

 $18y^2$

16) $80x^3$, $30yx^2$

 $10x^2$

17) $105x$, $30yx$, $75x$

 $15x$

18) $140n$, $140m^2$, $80m^2$

20

Least Common Multiple

Date_____ Period____

Find the LCM of each.

1) 10, 3

2) 14, 6

3) 15, 6

4) 15, 20

5) 27, 18

6) 4, 30

7) 24, 32

8) 20, 30

9) 24, 36

10) 35, 25

11) $18xy^2$, $15y^3$

12) $20x^3$, $16x^4$

13) $18, 6v$

14) $3x^2, 10$

15) $20y, 14y^2$

16) $25x^2, 25y$

17) $32u^2, 14v^2$

18) $18m^2, 24nm$

19) $16x^2y, 32x$

20) $30ab^3, 20ab^3$

21) $30, 25, 10$

22) $28, 14, 21$

23) $10, 4, 18$

24) $10ba, 20ba, 28ba$

25) $8y^2, 16xy, 16y$

26) $28b^2, 20ab^3, 16b^4$

Least Common Multiple

Date _____ Period _____

Find the LCM of each.

1) 10, 3

30

2) 14, 6

42

3) 15, 6

30

4) 15, 20

60

5) 27, 18

54

6) 4, 30

60

7) 24, 32

96

8) 20, 30

60

9) 24, 36

72

10) 35, 25

175

11) $18xy^2$, $15y^3$

 $90xy^3$

12) $20x^3$, $16x^4$

 $80x^4$

13) $18, 6v$

$18v$

14) $3x^2, 10$

$30x^2$

15) $20y, 14y^2$

$140y^2$

16) $25x^2, 25y$

$25x^2y$

17) $32u^2, 14v^2$

$224u^2v^2$

18) $18m^2, 24nm$

$72m^2n$

19) $16x^2y, 32x$

$32x^2y$

20) $30ab^3, 20ab^3$

$60ab^3$

21) $30, 25, 10$

150

22) $28, 14, 21$

84

23) $10, 4, 18$

180

24) $10ba, 20ba, 28ba$

$140ba$

25) $8y^2, 16xy, 16y$

$16y^2x$

26) $28b^2, 20ab^3, 16b^4$

$560b^4a$

Multi-Step Equations

Solve each equation.

1) $6a + 5a = -11$

2) $-6n - 2n = 16$

3) $4x + 6 + 3 = 17$

4) $0 = -5n - 2n$

5) $6r - 1 + 6r = 11$

6) $r + 11 + 8r = 29$

7) $-10 = -14v + 14v$

8) $-10p + 9p = 12$

9) $42 = 8m + 13m$

10) $a - 2 + 3 = -2$

11) $18 = 3(3x - 6)$

12) $30 = -5(6n + 6)$

$$13) \ 37 = -3 + 5(x + 6)$$

$$14) \ -13 = 5(1 + 4m) - 2m$$

$$15) \ 4(-x + 4) = 12$$

$$16) \ -2 = -(n - 8)$$

$$17) \ -6(1 - 5v) = 54$$

$$18) \ 8 = 8v - 4(v + 8)$$

$$19) \ 10(1 + 3b) = -20$$

$$20) \ -5n - 8(1 + 7n) = -8$$

$$21) \ 8(4k - 4) = -5k - 32$$

$$22) \ -8(-8x - 6) = -6x - 22$$

$$23) \ 8(1 + 5x) + 5 = 13 + 5x$$

$$24) \ -11 - 5a = 6(5a + 4)$$

$$25) -5(4x - 2) = -2(3 + 6x)$$

$$26) 5(2x + 6) = -4(-5 - 2x) + 3x$$

Multi-Step Equations

Solve each equation.

1) $6a + 5a = -11$

 $\{-1\}$

2) $-6n - 2n = 16$

 $\{-2\}$

3) $4x + 6 + 3 = 17$

 $\{2\}$

4) $0 = -5n - 2n$

 $\{0\}$

5) $6r - 1 + 6r = 11$

 $\{1\}$

6) $r + 11 + 8r = 29$

 $\{2\}$

7) $-10 = -14v + 14v$

No solution.

8) $-10p + 9p = 12$

 $\{-12\}$

9) $42 = 8m + 13m$

 $\{2\}$

10) $a - 2 + 3 = -2$

 $\{-3\}$

11) $18 = 3(3x - 6)$

 $\{4\}$

12) $30 = -5(6n + 6)$

 $\{-2\}$

$$13) \ 37 = -3 + 5(x + 6)$$

$\{2\}$

$$14) \ -13 = 5(1 + 4m) - 2m$$

$\{-1\}$

$$15) \ 4(-x + 4) = 12$$

$\{1\}$

$$16) \ -2 = -(n - 8)$$

$\{10\}$

$$17) \ -6(1 - 5v) = 54$$

$\{2\}$

$$18) \ 8 = 8v - 4(v + 8)$$

$\{10\}$

$$19) \ 10(1 + 3b) = -20$$

$\{-1\}$

$$20) \ -5n - 8(1 + 7n) = -8$$

$\{0\}$

$$21) \ 8(4k - 4) = -5k - 32$$

$\{0\}$

$$22) \ -8(-8x - 6) = -6x - 22$$

$\{-1\}$

$$23) \ 8(1 + 5x) + 5 = 13 + 5x$$

$\{0\}$

$$24) \ -11 - 5a = 6(5a + 4)$$

$\{-1\}$

$$25) -5(4x - 2) = -2(3 + 6x)$$

$\{2\}$

$$26) 5(2x + 6) = -4(-5 - 2x) + 3x$$

$\{10\}$

Multiplying/Dividing Fractions and Mixed Numbers

Date _____ Period _____

Find each product.

1) $-\frac{5}{4} \cdot \frac{1}{3}$

2) $\frac{8}{7} \cdot \frac{7}{10}$

3) $\frac{4}{9} \cdot \frac{7}{4}$

4) $-\frac{2}{3} \cdot \frac{5}{4}$

5) $-2 \cdot \frac{3}{7}$

6) $-2\frac{2}{3} \cdot 4\frac{1}{10}$

7) $-2\frac{1}{5} \cdot -1\frac{3}{4}$

8) $-1\frac{1}{4} \cdot 9$

9) $-1\frac{5}{7} \cdot -2\frac{1}{2}$

10) $-2\frac{3}{8} \cdot 2\frac{1}{2}$

Find each quotient.

11) $\frac{-1}{5} \div \frac{7}{4}$

12) $\frac{-1}{2} \div \frac{5}{4}$

13) $\frac{-3}{2} \div \frac{-10}{7}$

14) $\frac{1}{2} \div \frac{8}{7}$

15) $\frac{-9}{5} \div 2$

16) $-3\frac{5}{9} \div 3$

17) $-2 \div -3\frac{4}{5}$

18) $\frac{1}{9} \div -1\frac{1}{3}$

19) $1\frac{6}{7} \div 5\frac{3}{4}$

20) $-3\frac{7}{10} \div 2\frac{1}{4}$

Multiplying/Dividing Fractions and Mixed Numbers

Date _____ Period _____

Find each product.

1) $-\frac{5}{4} \cdot \frac{1}{3}$

$$-\frac{5}{12}$$

2) $\frac{8}{7} \cdot \frac{7}{10}$

$$\frac{4}{5}$$

3) $\frac{4}{9} \cdot \frac{7}{4}$

$$\frac{7}{9}$$

4) $-\frac{2}{3} \cdot \frac{5}{4}$

$$-\frac{5}{6}$$

5) $-2 \cdot \frac{3}{7}$

$$-\frac{6}{7}$$

6) $-2\frac{2}{3} \cdot 4\frac{1}{10}$

$$-10\frac{14}{15}$$

7) $-2\frac{1}{5} \cdot -1\frac{3}{4}$

$$3\frac{17}{20}$$

8) $-1\frac{1}{4} \cdot 9$

$$-11\frac{1}{4}$$

9) $-1\frac{5}{7} \cdot -2\frac{1}{2}$

$$4\frac{2}{7}$$

10) $-2\frac{3}{8} \cdot 2\frac{1}{2}$

$$-5\frac{15}{16}$$

Find each quotient.

$$11) \frac{-1}{5} \div \frac{7}{4}$$

$$-\frac{4}{35}$$

$$12) \frac{-1}{2} \div \frac{5}{4}$$

$$-\frac{2}{5}$$

$$13) \frac{-3}{2} \div \frac{-10}{7}$$

$$\frac{21}{20}$$

$$14) \frac{1}{2} \div \frac{8}{7}$$

$$\frac{7}{16}$$

$$15) \frac{-9}{5} \div 2$$

$$-\frac{9}{10}$$

$$16) -3\frac{5}{9} \div 3$$

$$-1\frac{5}{27}$$

$$17) -2 \div -3\frac{4}{5}$$

$$\frac{10}{19}$$

$$18) \frac{1}{9} \div -1\frac{1}{3}$$

$$-\frac{1}{12}$$

$$19) 1\frac{6}{7} \div 5\frac{3}{4}$$

$$\frac{52}{161}$$

$$20) -3\frac{7}{10} \div 2\frac{1}{4}$$

$$-1\frac{29}{45}$$

Naming Decimal Places

Date_____ Period____

Write the name of each decimal place indicated.1) 7252) 7,8233) 1994) 11,717,5555) 9,053,4966) 709,758,9687) 105,0168) 43,1059) 8.6835410) 9.645611) 1.8760512) 5.642141

13) 6.49890

14) 7.111

15) 2.74939

16) 5.2432

17) 32.658297

18) 6,721.86

19) 69,042,020

20) 9.69

21) 537,225.88

22) 469,523.77

23) 3,376,483,008

24) 639,606,650

Naming Decimal Places

Date _____ Period _____

Write the name of each decimal place indicated.

1) 725

ones

2) 7,823

ones

3) 199

ones

4) 11,717,555

ten thousands

5) 9,053,496

hundreds

6) 709,758,968

ten thousands

7) 105,016

thousands

8) 43,105

tens

9) 8.68354

ten-thousandths

10) 9.6456

thousandths

11) 1.87605

hundredths

12) 5.642141

ten-thousandths

13) 6.49890

ten-thousandths

14) 7.111

tenths

15) 2.74939

hundredths

16) 5.2432

tenths

17) 32.658297

hundred-thousandths

18) 6,721.86

ones

19) 69,042,020

hundred thousands

20) 9.69

tenths

21) 537,225.88

hundreds

22) 469,523.77

hundreds

23) 3,376,483,008

hundred millions

24) 639,606,650

hundred millions

Order of Operations

Date_____ Period____

Evaluate each expression.

1) $(30 - 3) \div 3$

2) $(21 - 5) \div 8$

3) $1 + 7^2$

4) $5 \times 4 - 8$

5) $8 + 6 \times 9$

6) $3 + 17 \times 5$

7) $7 + 12 \times 11$

8) $15 + 40 \div 20$

9) $20 + 16 - 15$

10) $19 - 15 - 3$

11) $9 \times (3 + 3) \div 6$

12) $(9 + 18 - 3) \div 8$

13) $9 + 6 \div (8 - 2)$

14) $4(4 \div 2 + 4)$

15) $6 + (5 + 8) \times 4$

16) $6 \times 6 - (7 + 5)$

17) $(9 \times 2) \div (2 + 1)$

18) $2 - (4 + 3 - 6)$

19) $7 \times 7 - (8 - 2)$

20) $9 - 7 - 6 \div 6$

21) $(4 - 1 + 8 \div 8) \times 5$

22) $(10 \times 2) \div (1 + 1)$

23) $7 \times 9 - 7 - 3 \times 5$

24) $8 - 1 - (18 - 2) \div 8$

Order of Operations

Date_____ Period____

Evaluate each expression.

1) $(30 - 3) \div 3$

9

2) $(21 - 5) \div 8$

2

3) $1 + 7^2$

50

4) $5 \times 4 - 8$

12

5) $8 + 6 \times 9$

62

6) $3 + 17 \times 5$

88

7) $7 + 12 \times 11$

139

8) $15 + 40 \div 20$

17

9) $20 + 16 - 15$

21

10) $19 - 15 - 3$

1

11) $9 \times (3 + 3) \div 6$

9

12) $(9 + 18 - 3) \div 8$

3

13) $9 + 6 \div (8 - 2)$

10

14) $4(4 \div 2 + 4)$

24

15) $6 + (5 + 8) \times 4$

58

16) $6 \times 6 - (7 + 5)$

24

17) $(9 \times 2) \div (2 + 1)$

6

18) $2 - (4 + 3 - 6)$

1

19) $7 \times 7 - (8 - 2)$

43

20) $9 - 7 - 6 \div 6$

1

21) $(4 - 1 + 8 \div 8) \times 5$

20

22) $(10 \times 2) \div (1 + 1)$

10

23) $7 \times 9 - 7 - 3 \times 5$

41

24) $8 - 1 - (18 - 2) \div 8$

5

Proportions

Date _____ Period _____

State if each pair of ratios forms a proportion.

1) $\frac{4}{2}$ and $\frac{20}{6}$

2) $\frac{3}{2}$ and $\frac{18}{8}$

3) $\frac{4}{3}$ and $\frac{16}{12}$

4) $\frac{4}{3}$ and $\frac{8}{6}$

5) $\frac{12}{24}$ and $\frac{3}{4}$

6) $\frac{6}{9}$ and $\frac{2}{3}$

Solve each proportion.

7) $\frac{10}{k} = \frac{8}{4}$

8) $\frac{m}{10} = \frac{10}{3}$

9) $\frac{2}{x} = \frac{7}{9}$

10) $\frac{3}{x} = \frac{7}{10}$

$$11) \frac{4}{9} = \frac{2}{x}$$

$$12) \frac{6}{a} = \frac{3}{8}$$

$$13) \frac{8n}{8} = \frac{8}{3}$$

$$14) \frac{7}{9} = \frac{a}{5}$$

$$15) \frac{p}{8} = \frac{13}{2}$$

$$16) \frac{3}{13} = \frac{v}{3}$$

$$17) \frac{10}{12} = \frac{2}{n}$$

$$18) \frac{11}{10} = \frac{r}{11}$$

$$19) \frac{x}{9} = \frac{7}{14}$$

$$20) \frac{a}{10} = \frac{11}{14}$$

$$21) \frac{v}{12} = \frac{10}{2}$$

$$22) \frac{6}{14} = \frac{5}{n}$$

Proportions

Date _____ Period _____

State if each pair of ratios forms a proportion.

1) $\frac{4}{2}$ and $\frac{20}{6}$

No

2) $\frac{3}{2}$ and $\frac{18}{8}$

No

3) $\frac{4}{3}$ and $\frac{16}{12}$

Yes

4) $\frac{4}{3}$ and $\frac{8}{6}$

Yes

5) $\frac{12}{24}$ and $\frac{3}{4}$

No

6) $\frac{6}{9}$ and $\frac{2}{3}$

Yes

Solve each proportion.

7) $\frac{10}{k} = \frac{8}{4}$

{5}

8) $\frac{m}{10} = \frac{10}{3}$

{33.33}

9) $\frac{2}{x} = \frac{7}{9}$

{2.57}

10) $\frac{3}{x} = \frac{7}{10}$

{4.28}

$$11) \frac{4}{9} = \frac{2}{x}$$

$$\{4.5\}$$

$$12) \frac{6}{a} = \frac{3}{8}$$

$$\{16\}$$

$$13) \frac{8n}{8} = \frac{8}{3}$$

$$\{2.66\}$$

$$14) \frac{7}{9} = \frac{a}{5}$$

$$\{3.88\}$$

$$15) \frac{p}{8} = \frac{13}{2}$$

$$\{52\}$$

$$16) \frac{3}{13} = \frac{v}{3}$$

$$\{0.69\}$$

$$17) \frac{10}{12} = \frac{2}{n}$$

$$\{2.4\}$$

$$18) \frac{11}{10} = \frac{r}{11}$$

$$\{12.1\}$$

$$19) \frac{x}{9} = \frac{7}{14}$$

$$\{4.5\}$$

$$20) \frac{a}{10} = \frac{11}{14}$$

$$\{7.85\}$$

$$21) \frac{v}{12} = \frac{10}{2}$$

$$\{60\}$$

$$22) \frac{6}{14} = \frac{5}{n}$$

$$\{11.66\}$$

Simplifying Variable Expressions

Simplify each expression.

1) $-3p + 6p$

2) $b - 3 + 6 - 2b$

3) $7x - x$

4) $7p - 10p$

5) $-10v + 6v$

6) $-9r + 10r$

7) $9 + 5r - 9r$

8) $1 - 3v + 10$

9) $5n + 9n$

10) $4b + 6 - 4$

11) $35n - 1 + 46$

12) $-33v - 49v$

13) $30n + 8n$

14) $7x + 31x$

15) $10x + 36 - 38x - 47$

16) $-2(7 - n) + 4$

17) $-8(-5b + 7) + 5b$

18) $-4p - (1 - 6p)$

19) $4 - 5(-4n + 3)$

20) $-7(k - 8) + 2k$

21) $1 + 7(1 - 3b)$

22) $3 - 8(7 - 5n)$

Simplifying Variable Expressions

Simplify each expression.

1) $-3p + 6p$

$3p$

2) $b - 3 + 6 - 2b$

$-b + 3$

3) $7x - x$

$6x$

4) $7p - 10p$

$-3p$

5) $-10v + 6v$

$-4v$

6) $-9r + 10r$

r

7) $9 + 5r - 9r$

$9 - 4r$

8) $1 - 3v + 10$

$11 - 3v$

9) $5n + 9n$

$14n$

10) $4b + 6 - 4$

$4b + 2$

11) $35n - 1 + 46$

$35n + 45$

12) $-33v - 49v$

$-82v$

13) $30n + 8n$

$38n$

14) $7x + 31x$

$38x$

15) $10x + 36 - 38x - 47$

$-28x - 11$

16) $-2(7 - n) + 4$

$-10 + 2n$

17) $-8(-5b + 7) + 5b$

$45b - 56$

18) $-4p - (1 - 6p)$

$2p - 1$

19) $4 - 5(-4n + 3)$

$-11 + 20n$

20) $-7(k - 8) + 2k$

$-5k + 56$

21) $1 + 7(1 - 3b)$

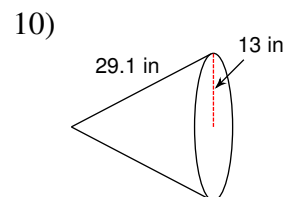
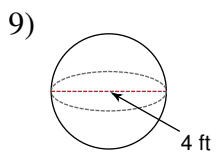
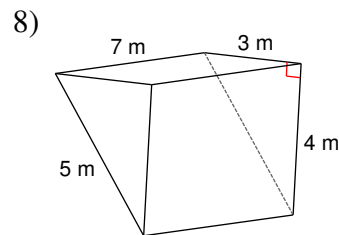
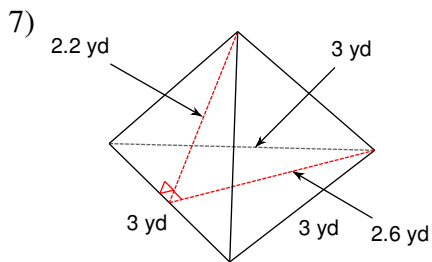
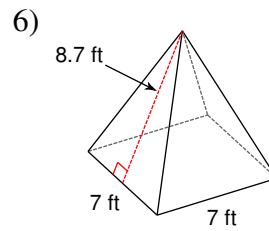
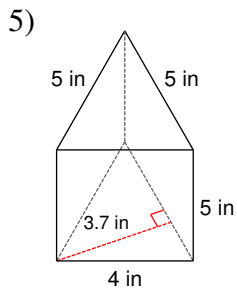
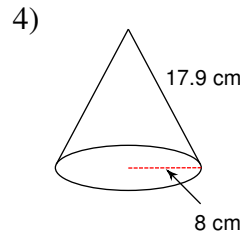
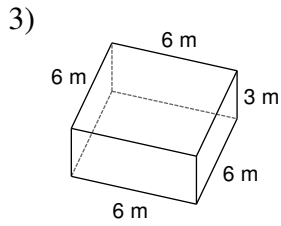
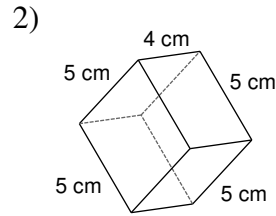
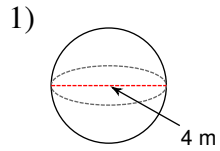
$8 - 21b$

22) $3 - 8(7 - 5n)$

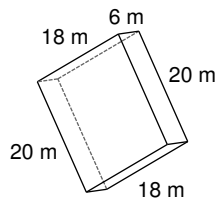
$-53 + 40n$

Surface Area of Solids

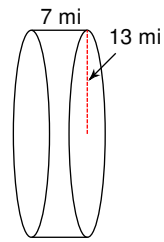
Find the surface area of each figure. Round to the nearest tenth.



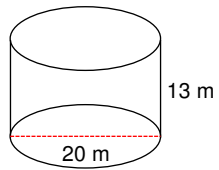
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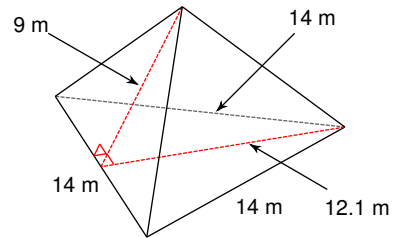
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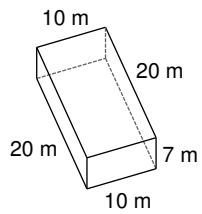
13)



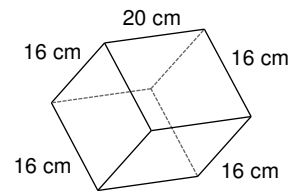
14)



15)



16)



17) A cone with diameter 10 in and a slant height of 13 in.

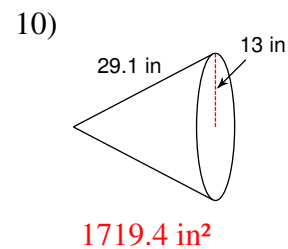
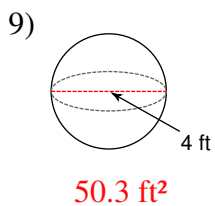
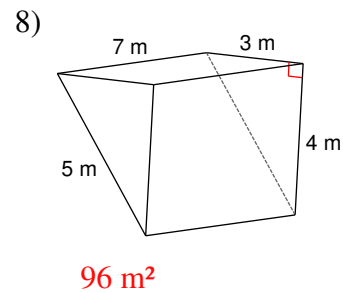
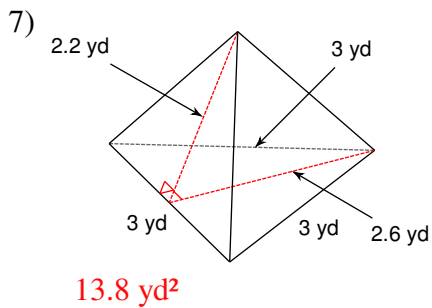
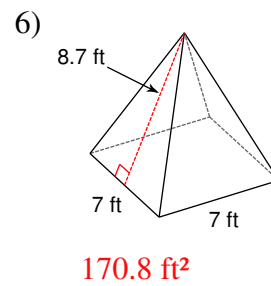
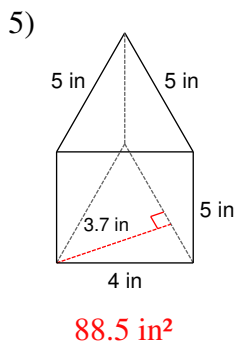
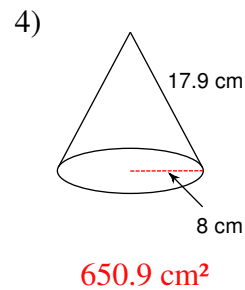
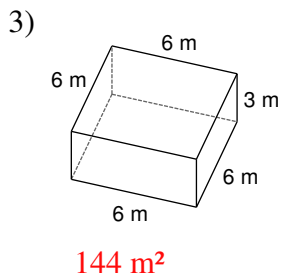
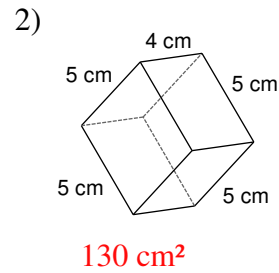
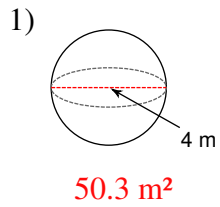
18) A square prism measuring 8 km along each edge of the base and 9 km tall.

19) A sphere with a diameter of 20 yd.

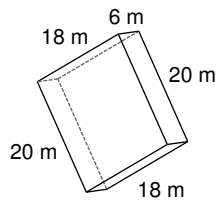
20) A square pyramid measuring 9 yd along the base with a slant height of 12.8 yd.

Surface Area of Solids

Find the surface area of each figure. Round to the nearest tenth.

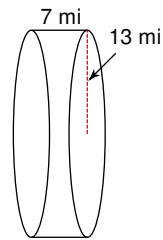


11)



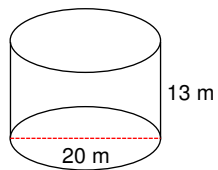
$$1176 \text{ m}^2$$

12)



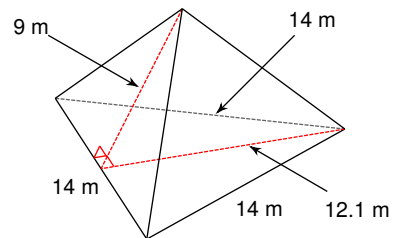
$$1633.6 \text{ mi}^2$$

13)



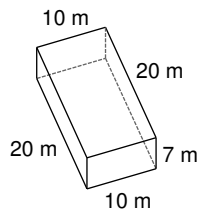
$$1445.1 \text{ m}^2$$

14)



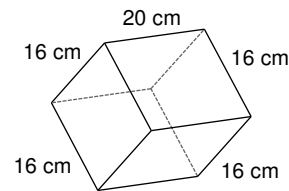
$$273.7 \text{ m}^2$$

15)



$$820 \text{ m}^2$$

16)



$$1792 \text{ cm}^2$$

17) A cone with diameter 10 in and a slant height of 13 in.

$$282.7 \text{ in}^2$$

18) A square prism measuring 8 km along each edge of the base and 9 km tall.

$$416 \text{ km}^2$$

19) A sphere with a diameter of 20 yd.

$$1256.6 \text{ yd}^2$$

20) A square pyramid measuring 9 yd along the base with a slant height of 12.8 yd.

$$311.4 \text{ yd}^2$$

Two-Step Equations With Integers

Solve each equation.

1) $\frac{r}{10} + 4 = 5$

2) $\frac{n}{2} + 5 = 3$

3) $3p - 2 = -29$

4) $1 - r = -5$

5) $\frac{k - 10}{2} = -7$

6) $\frac{n - 5}{2} = 5$

7) $-9 + \frac{n}{4} = -7$

8) $\frac{9 + m}{3} = 2$

9) $\frac{-5 + x}{22} = -1$

10) $4n - 9 = -9$

11) $\frac{x + 9}{2} = 3$

12) $\frac{-12 + x}{11} = -3$

13) $\frac{-4 + x}{2} = 6$

14) $-5 + \frac{n}{3} = 0$

$$15) \frac{p}{4} + 8 = 7$$

$$16) 9 + \frac{n}{4} = 15$$

$$17) 6 + \frac{x}{2} = 4$$

$$18) \frac{b + 11}{3} = -2$$

$$19) \frac{a - 10}{3} = -4$$

$$20) -12r + 4 = 100$$

$$21) \frac{m}{16} - 9 = -8$$

$$22) -7 + 4r = -15$$

$$23) \frac{m - 13}{2} = -8$$

$$24) -5x + 13 = -17$$

$$25) \frac{k + 10}{-2} = 5$$

$$26) \frac{p + 8}{-2} = 10$$

$$27) -14r - 19 = 303$$

$$28) \frac{x}{-4} - 5 = -8$$

Two-Step Equations With Integers

Solve each equation.

1) $\frac{r}{10} + 4 = 5$

 $\{10\}$

2) $\frac{n}{2} + 5 = 3$

 $\{-4\}$

3) $3p - 2 = -29$

 $\{-9\}$

4) $1 - r = -5$

 $\{6\}$

5) $\frac{k - 10}{2} = -7$

 $\{-4\}$

6) $\frac{n - 5}{2} = 5$

 $\{15\}$

7) $-9 + \frac{n}{4} = -7$

 $\{8\}$

8) $\frac{9 + m}{3} = 2$

 $\{-3\}$

9) $\frac{-5 + x}{22} = -1$

 $\{-17\}$

10) $4n - 9 = -9$

 $\{0\}$

11) $\frac{x + 9}{2} = 3$

 $\{-3\}$

12) $\frac{-12 + x}{11} = -3$

 $\{-21\}$

13) $\frac{-4 + x}{2} = 6$

 $\{16\}$

14) $-5 + \frac{n}{3} = 0$

 $\{15\}$

$$15) \frac{p}{4} + 8 = 7$$

$$\{-4\}$$

$$16) 9 + \frac{n}{4} = 15$$

$$\{24\}$$

$$17) 6 + \frac{x}{2} = 4$$

$$\{-4\}$$

$$18) \frac{b + 11}{3} = -2$$

$$\{-17\}$$

$$19) \frac{a - 10}{3} = -4$$

$$\{-2\}$$

$$20) -12r + 4 = 100$$

$$\{-8\}$$

$$21) \frac{m}{16} - 9 = -8$$

$$\{16\}$$

$$22) -7 + 4r = -15$$

$$\{-2\}$$

$$23) \frac{m - 13}{2} = -8$$

$$\{-3\}$$

$$24) -5x + 13 = -17$$

$$\{6\}$$

$$25) \frac{k + 10}{-2} = 5$$

$$\{-20\}$$

$$26) \frac{p + 8}{-2} = 10$$

$$\{-28\}$$

$$27) -14r - 19 = 303$$

$$\{-23\}$$

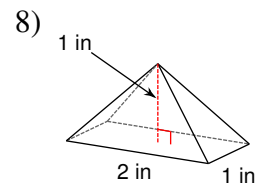
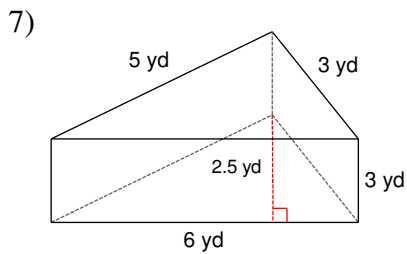
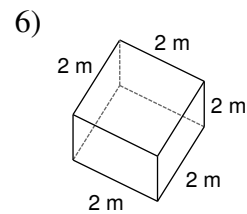
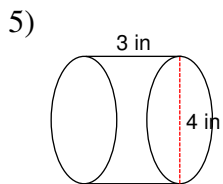
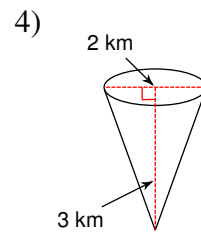
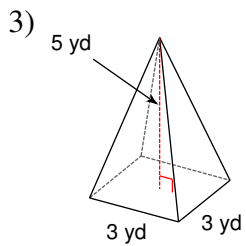
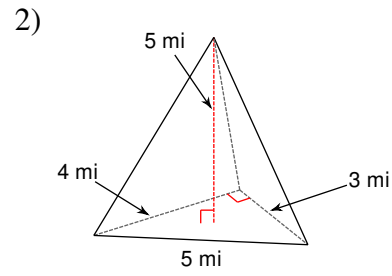
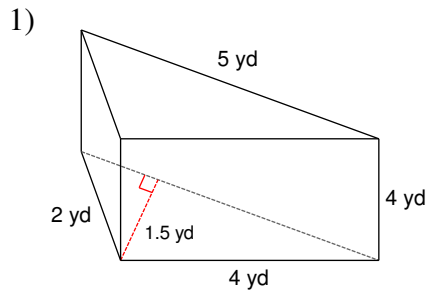
$$28) \frac{x}{-4} - 5 = -8$$

$$\{12\}$$

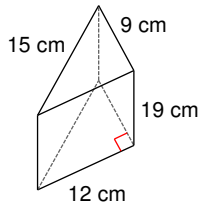
Volumes of Solids

Date _____ Period _____

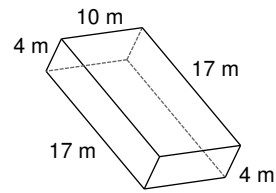
Find the volume of each figure. Round to the nearest tenth.



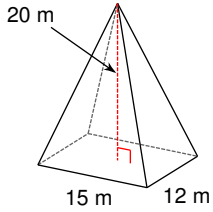
9)



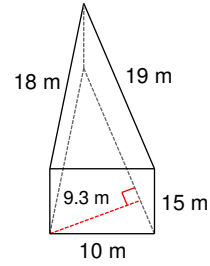
10)



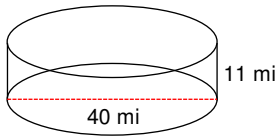
11)



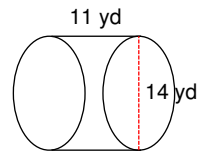
12)



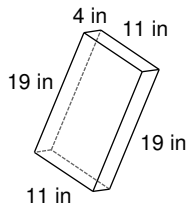
13)



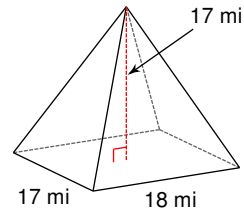
14)



15)



16)



17) A cylinder with a radius of 3 cm and a height of 7 cm.

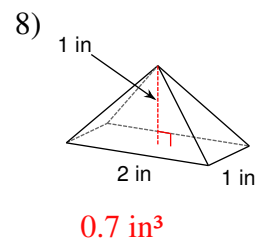
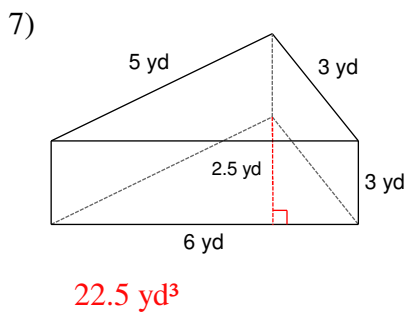
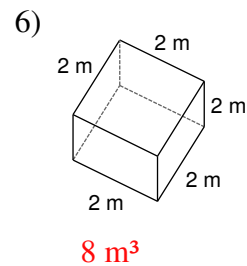
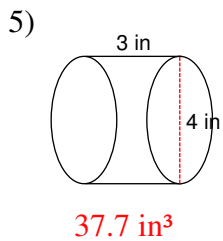
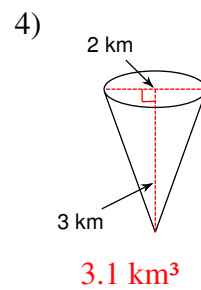
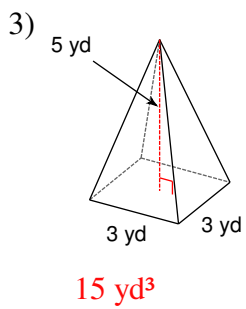
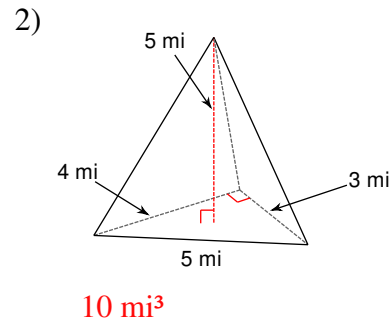
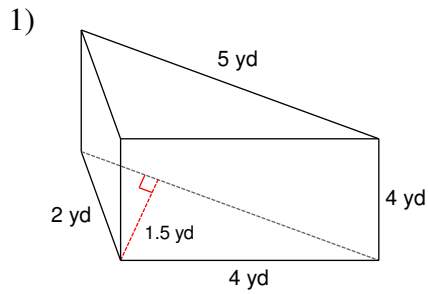
18) A cone with diameter 20 cm and a height of 20 cm.

19) A cone with diameter 14 yd and a height of 14 yd.

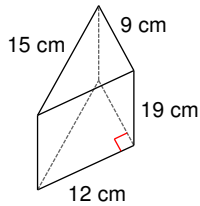
20) A rectangular prism measuring 10 m and 7 m along the base and 12 m tall.

Volumes of Solids

Find the volume of each figure. Round to the nearest tenth.

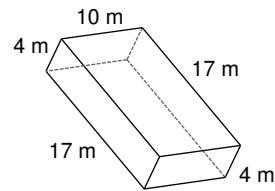


9)



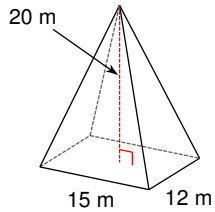
$$1026 \text{ cm}^3$$

10)



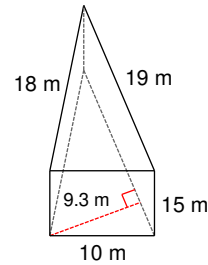
$$680 \text{ m}^3$$

11)



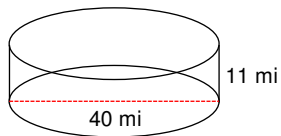
$$1200 \text{ m}^3$$

12)



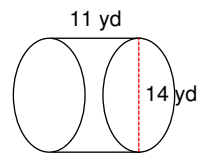
$$1325.3 \text{ m}^3$$

13)



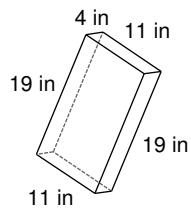
$$13823 \text{ mi}^3$$

14)



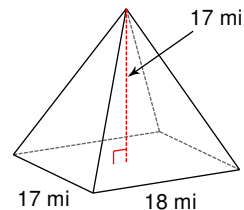
$$1693.3 \text{ yd}^3$$

15)



$$836 \text{ in}^3$$

16)



$$1734 \text{ mi}^3$$

17) A cylinder with a radius of 3 cm and a height of 7 cm.

$$197.9 \text{ cm}^3$$

18) A cone with diameter 20 cm and a height of 20 cm.

$$2094.4 \text{ cm}^3$$

19) A cone with diameter 14 yd and a height of 14 yd.

$$718.4 \text{ yd}^3$$

20) A rectangular prism measuring 10 m and 7 m along the base and 12 m tall.

$$840 \text{ m}^3$$