

Each of the 23 questions is worth 4 points plus 1 point for each of 8 homework problems = 100

Write the decimal number in standard form.

1) Fourteen and seven hundred forty–seven thousandths

Write the decimal as a fraction or mixed number in lowest terms.

2) 0.44

Insert <, >, or = between the pair of numbers to form a true statement.

3) 110.030 _____ 110.003

Round the decimal to the given place value.

4) 79.5396, nearest thousandth

Perform the indicated operation.

5)
$$\begin{array}{r} 149.001 \\ 16.944 \\ + \underline{1.921} \end{array}$$

Evaluate the expression for the given replacement values.

6) $x - z$ for $x = 5.2$, $z = 0.66$

Simplify by combining like terms.

7) $15.6x + 14.5 - 6.7x - 23.3$

Solve.

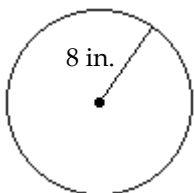
8) Last year, Lance's average electricity bill was \$102.10. In October, his electricity bill was \$131.19. How much more than last year's average was the October bill?

Multiply.

9) $(-2.87)(1.83)$

10) $(-3.590)(-0.1)$

Find the circumference of the circle. Then use the approximation 3.14 for π and approximate the circumference.



11)

Math090 PreAlgebra – Arrowsmith – PreTest 5

Solve.

- 12) A printing company charges \$1.7845 for each wedding invitation it prints. What would be the cost (before tax) for printing 300 wedding invitations? (Round the answer to the nearest cent.)

Divide.

13) $15.12 \div 45$

14) $-7.29 \div (-100)$

Evaluate the expression for the given replacement values.

15) $x \div y$ for $x = 5.06$, $y = 4.6$

Solve.

- 16) In one week, Mahesh worked 31.5 hours cleaning yards and earned \$246.50, including tips. How much did Mahesh earn per hour? (Round to the nearest cent if necessary.)

Insert $<$, $>$, or $=$ between the pair of numbers to form a true statement.

17) 0.365 _____ $\frac{23}{63}$

Arrange the list of numbers in order from smallest to largest.

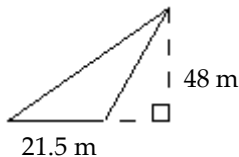
18) 2.964, 2.649, 2.694, 2.469

Simplify the expression.

19) $-0.5(4.9 - 6.1)$

Find the area of the triangle or rectangle. Round to the nearest thousandth, if necessary.

20)



Evaluate the expression for the given replacement values.

21) $2x - z$ for $x = 1.2$, $z = 3.4$

Solve the equation by first multiplying both sides through by an appropriate power of 10 so that the equation contains integers only.

22) $0.3x + 0.5 = -0.4$

Solve the equation.

23) $-0.7x + 1.15 = -0.4x + 2.65$