

Student: _____**Instructor:** Megan Rourke**Assignment:** Ch. 3 Homework**Date:** _____**Course:** MATH 1500 - Online

1. Write the decimal 1.56 in words.

Choose the correct answer below.

- A. One and fifty-six hundredths
- B. One hundred fifty-six thousandths
- C. One point fifty-six
- D. One and fifty-six tenths

2. Write in words.

21.0033

Choose the correct answer below.

- twenty-one and thirty-three ten-thousandths
- twenty-one and thirty-three ten-thousands
- twenty-one point double zero thirty-three
- twenty-one point zero zero thirty-three

3. Write as a number.

Fourteen and seventy-two thousandths

The number is .

(Type a whole number or a decimal.)

4. The following are diameters of some common household wires No. 10 is 0.102 in., No. 11 is 0.090 in., No. 12 is 0.081 in., No. 14 is 0.064 in., and No. 16 is 0.051 in.

(a) The diameter of No. 16 wire is how much smaller than the diameter of No. 14 wire?

(b) Is No. 11 wire larger or smaller than No. 12 wire? What is the difference in their diameters?

(c) John measured the thickness of a wire with a micrometer as 0.083 in. Assuming that the manufacturer was slightly off, what wire size did John have?

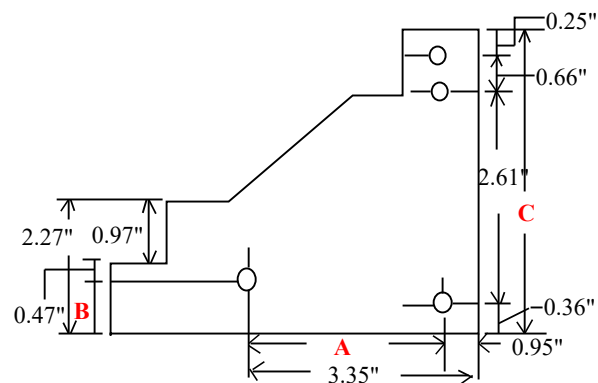
(a) The diameter of No. 16 wire is in. smaller than the diameter of No. 14 wire.

(b) No. 11 wire is (1) than No. 12 wire. The difference in their dimensions is in.

(c) John had wire size No. .

- (1) larger
 smaller

5. Find A, B, and C.



A = "

B = "

C = "

6. A power-spraying outfit is advertised for \$870. It can also be bought "on time" for 24 payments of \$39.25 each. How much extra do you pay by purchasing it on the installment plan?

You pay an extra \$ by purchasing the installment plan.
 (Round to the nearest dollar as needed.)

7. How many sheets of metal are in a stack 8.00 in. high if each sheet is 0.0148 in. thick?

The number of metal sheets in the stack is .

(Round to the nearest whole number as needed.)

8. Write as a decimal.

$$\frac{5}{11}$$

$$\frac{5}{11} = \text{}$$

(Round to three decimal places as needed.)

9. Write as a decimal number.

$$\frac{4}{9}$$

$$\frac{4}{9} = \text{}$$

(Type a whole number or an exact decimal. If the decimal does not terminate, round to two decimal places.)

10. Write as a decimal number.

$$\frac{33}{1000}$$

$$\frac{33}{1000} = \text{}$$

(Type a whole number or an exact decimal. If the decimal does not terminate, round to two decimal places.)

11. Calculate in decimal form.

$$4\frac{5}{8} - 3.3$$

$$4\frac{5}{8} - 3.3 = \text{} \text{ (Round to the nearest tenth as needed.)}$$

12. Calculate in decimal form.

$$2.54 + \frac{3}{8}$$

$$2.54 + \frac{3}{8} = \text{} \text{ (Round to the nearest hundredth as needed.)}$$

13. If a roofer lays $7\frac{1}{2}$ squares of shingles in $4\frac{1}{2}$ days, how many squares does he do in one day?

A roofer does squares in one day.

(Type a whole number or decimal rounded to the nearest tenth as needed.)

14. Plumbers deal with measurements in inches and common fractions of an inch, while surveyors use feet and decimal fractions of a foot. Often one trade needs to interpret the measurements of the other.

(a) A drain has a run of 52 ft at a grade of $\frac{1}{8}$ in./in. The high end of the drain has an elevation of 126.50 ft. What is the elevation at the low end?

(b) The elevation at one end of a lot is 84.21 ft, and the elevation at the other end is 99.74 ft. Express the difference in elevation in feet and inches and round to the nearest $\frac{1}{8}$ in.

(a) The elevation at the low end is ft.

(Type an integer or a decimal.)

(b) The difference in elevation is approximately ft in.

(Type integers, fractions, or mixed numbers.)

1. A. One and fifty-six hundredths

2. twenty-one and thirty-three ten-thousandths

3. 14.072

4. 0.013

(1) larger

0.009

12

5. 2.40

0.83

3.88

6. 72

7. 541

8. 0.455

9. 0.44

10. 0.033

11. 1.3

12. 2.92

13. 1.7

14. 120.00

15

$6\frac{3}{8}$
