

ALEKS® Word Problem Quiz #1

Beginning Algebra / Math 100 – Master No Book (Prof. Miller)

Student Name/ID:

Instructor Note:

Directions: Every problem is worth two points. One point is for trying the problem and showing your work and one point is for getting the correct answer. There are an additional five points for demonstrating the study strategy that is posted on the board and talked about at the beginning of class.

1. Bob deposits \$500 into an account that pays simple interest at a rate of 6% per year. How much interest will he be paid in the first 5 years?
2. A washer and a dryer cost \$804 combined. The washer costs \$96 less than the dryer. What is the cost of the dryer?
3. An item is regularly priced at \$40 Lamar bought it at a discount of 30% off the regular price. How much did Lamar pay?
4. Maya found three pieces of wire in her tool drawer. Here are their lengths (in centimeters).
17 , 7.27 , 18.05

What is the total length of the three pieces?

5. The table gives the temperature (in $^{\circ}\text{F}$) in five cities at 6 a.m. on the same day. Use the table to answer the questions.

City	Temperature ($^{\circ}\text{F}$)
Santa Fe	74
Milwaukee	-6
Winnipeg	-16
Nome	-28
Dayton	48

- (a) How much higher was the 6 a.m. temperature in Dayton than in Winnipeg?

$^{\circ}\text{F}$ higher

- (b) By noon, the temperature in Nome had risen by 12°F .
What was the temperature there at noon?

$^{\circ}\text{F}$

6. Translate this phrase into an algebraic expression.

Four more than the product of 23 and Greg's height

Use the variable g to represent Greg's height.

7. Bob must choose a number between 67 and 113 that is a multiple of 2, 8, and 16. Write all the numbers that he could choose. If there is more than one number, separate them with commas.

8. A suit is on sale for 33% off. The sale price is \$335.

What is the regular price?

9. Last year, Rita biked 341 miles. This year, she biked d miles. Using d write an expression for the total number of miles she biked.
10. Leila purchased a prepaid phone card for \$25 Long distance calls cost 23 cents a minute using this card. Leila used her card only once to make a long distance call. If the remaining credit on her card is \$14.65 how many minutes did her call last?
11. Mr. Butler has a class of 16 students. He can spend \$24 on each student to buy math supplies for the year. He first buys all of his students calculators, which costs a total of \$99.20 After buying the calculators, how much does he have left to spend on each student?

12. Translate this sentence into an equation.

60 is the product of Rick's score and 4

Use the variable r to represent Rick's score.

13. The sum of three numbers is 75 The third number is 3 times the second. The first number is 5 less than the second What are the numbers?

14. Answer the following questions.

(a) What percent of 8 is 33.52 ? _____

(b) 25.6% of what number is 21.12 ? _____

15. Two trains leave stations 504 miles apart at the same time and travel toward each other. One train travels at 95 miles per hour while the other travels at 85 miles per hour. How long will it take for the two trains to meet?

Do not do any rounding.

hours

Word Problem Quiz #1 Answers for class Beginning Algebra / Math 100 – Master No Book

1. \$150
2. \$450
3. \$28
4. 42.32 centimeters
5. (a) How much higher was the 6 a.m. temperature in Dayton than in Winnipeg?
64 °F higher

(b) By noon, the temperature in Nome had risen by 12°F.
What was the temperature there at noon?
-16 °F
6. $23g + 4$
7. 80,96,112
8. \$500
9. $341 + d$
10. 45 minutes
11. \$17.80
12. $60 = 4r$
13. First number: 11
Second number: 16
Third number: 48
14. (a) What percent of 8 is 33.52 ? 419%
(b) 25.6% of what number is 21.12 ? 82.5
15. 2.8 hours