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← **MA 111 / 115, section WPU F20 Waters, Fall 2020**

INSTRUCTOR

Steve Waters

Warner Pacific College, OR

WebAssign: §1.2 (Homework)

Current Score

QUESTION

1

2

3

4

5

6

7

8

9

10

11

POINTS

-/3

-/3

-/1

-/3

-/2

-/1

-/1

-/1

-/1

-/1

-/1

TOTAL SCORE

-/18

0.0%

Due Date

FRI, SEP 11, 2020

11:30 AM PDT



Request Extension

Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

Assignment Scoring

Your last submission is used for your score.

1. [-/3 Points]

DETAILS

LARCAABLS2 1.2.016.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

One positive number is **one-sixth** of another number. The difference of the two numbers is **75**. Find the numbers.

(a) Use the verbal description to write a verbal model.

- ☐ difference = (another number) – (one number)
- ☐ difference = (one number) + (another number)
- ☐ difference = –(another number) – (one number)
- ☐ difference = (another number) + (one number)
- ☐ difference = –(one number) – (another number)

(b) Assign labels to the quantities in the verbal model.

difference ▼ = **75**

difference ▼ = x

---Select--- ▼ = $\frac{1}{6}x$

(c) Use the labels to write a mathematical model.

(d) Solve the problem. (Enter your answers as a comma-separated list.)

2. [-/3 Points]

DETAILS

LARCAABLS2 1.2.020.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

The price of a shirt has been discounted by \$10. The sale price is \$24.95. What percent of the original list price is the discount?

(a) Use the verbal description to write a verbal model.

- ☐ change in price = (percent) – (original price)
- ☐ change in price = (percent)/(original price)
- ☐ change in price = (original price)/(percent)
- ☐ change in price = (original price) + (percent)
- ☐ change in price = (percent)(original price)

(b) Assign labels to the quantities in the verbal model.

---Select--- ▼ = 10

---Select--- ▼ = r

---Select--- ▼ = 34.95

(c) Use the labels to write a mathematical model.

(d) Solve the problem. (Round your answer to the nearest whole number.)

$r =$ %

3. [-/1 Points]

DETAILS

LARCAABLS2 1.2.030.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Use the following information. Restaurants tend to serve food in larger portions now than they have in the past. Several examples are shown in the table. Find the percent increase in size from the past to 2011 for the indicated food item. (Round your answer to one decimal place.)

Small French fries

	%	
Food or drink item	Past size	2011 size
Small soft drink	8 fl oz	15 fl oz
Small French fries	2.3 oz	2.4 oz
Large French fries	3.6 oz	5.2 oz
Pizza	9 in.	14 in.

4. [-/3 Points]

DETAILS

LARCAABLS2 1.2.036.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

You accept a new job with a starting salary of \$51,000. You receive a 5% raise at the start of your second year, a 5.6% raise at the start of your third year, and an 11.4% raise at the start of your fourth year. (Round your answers to two decimal places.)

(a) Find your salary for the second year.

\$

(b) Find your salary for the third year.

\$

(c) Find your salary for the fourth year.

\$

5. [-/2 Points]

DETAILS

LARCAABLS2 1.2.039.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

A picture frame (see figure) has a total perimeter of 4 feet. The width of the frame is 0.61 times its length. Find the dimensions of the frame. (Round your answers to two decimal places.)

width ftlength ft

6. [-/1 Points]

DETAILS

LARCAABLS2 1.2.044.MI.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

To get an A in a course, you need an average of 90% or better on four tests. The first three tests are worth 100 points each and the fourth is worth 200 points. Your scores on the first three tests are 87, 89, and 85. What must you score on the fourth test to get an A for the course?

 points (or greater)

7. [-/1 Points]

DETAILS

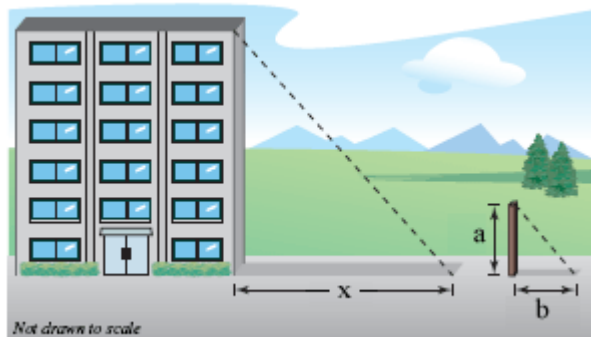
LARCAABLS2 1.2.054.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

To determine the height of a building, you measure the building's shadow and the shadow of a four-foot stake, as shown in the figure. How tall is the building if $x = 80$ ft, $a = 4$ ft, and $b = 3\frac{1}{2}$ ft? (Round your answer to two decimal places.)

 ft

8. [-/1 Points]

DETAILS

LARCAABLS2 1.2.052.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Students are traveling in two cars to a football game 140 miles away. One car travels at an average speed of 45 miles per hour. The second car starts $\frac{1}{2}$ hour later and travels at an average speed of 55 miles per hour. How long will it take the second car to catch up to the first car?

 hr

9. [-/1 Points]

DETAILS

LARCAABLS2 1.2.064.

MY NOTES

ASK YOUR TEACHER

Solve for the indicated variable.

Volume of a Rectangular Prism

Solve for l in $V = lwh$.

 $l =$

10. [-/1 Points]

DETAILS

LARCAABLS2 1.2.067.

MY NOTES

ASK YOUR TEACHER

Solve for the indicated variable.

Discount

Solve for L in $S = L - RL$.

 $L =$

11. [-/1 Points]

DETAILS

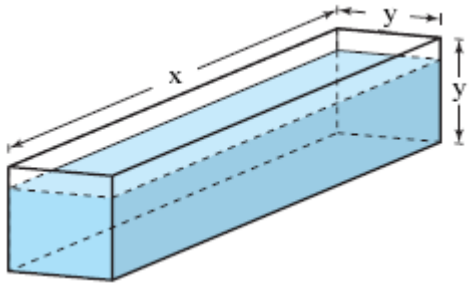
LARCAABLS2 1.2.072.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

A trough is $x = 12$ feet long, $y = 3$ feet deep, and $y = 3$ feet wide (see figure). Find the depth of the water when the trough contains 70 gallons of water. (1 gallon ≈ 0.13368 cubic foot. Round your answer to two decimal places.)

 ft

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