



PROBLEMS AND SOLUTIONS - SYSTEMS OF MEASUREMENT

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Please Send Questions and Comments to ingrid.stewart@csn.edu. Thank you!

PLEASE NOTE THAT YOU CANNOT USE A CALCULATOR ON THE ACCUPLACER - ARITHMETIC TEST! YOU MUST BE ABLE TO DO THE FOLLOWING PROBLEMS WITHOUT A CALCULATOR!

Problem 1:

Change **76.53 feet** to **inches**.

Problem 2:

How many **pints** are in **5.6 quarts** ?

Problem 3:

How many **inches** are in $1\frac{3}{4}$ **mile** ?

Problem 4:

Express **4 ft 18 in** in standard notation.

Problem 5:

Express **90 inches** in standard notation.

Problem 6:

Express **7 lb 19 oz** in standard notation.

Problem 7:

Express **2 gal 6 qt** in standard notation.

Problem 8:

Express **3 yd 5 ft 13 in** in standard notation.

Problem 9:

Change **0.378 m** to **mm**.

Problem 10:

How many **km** are in **789 m** ?

Problem 11:

How many **mL** are in **0.714 L** ?

Problem 12:

Express **659 g** as **kg**.

Problem 13:

Convert 4 hours to minutes and to seconds.

Problem 14:

An factory worker can assemble a bicycle in 25 minutes. How long will it take him to assemble 7 bicycles? Express the time in standard notation using hours and minutes!

Problem 15:

Assume you leave on your vacation to Yellowstone Park at 4:30 AM and arrive in Salt Lake City, Utah at 11:39 AM. You decide to eat lunch and leave Salt Lake City at 1:05 PM. You arrive at your destination at 8:35 PM. What was your traveling time? Express it in standard notation using hours and minutes!

**SOLUTIONS**

You can find detailed solutions below the link for this problem set!

1. 918.36 in	2. 11.2 pt	3. 110,880 in
4. 1 yd 2 ft 6 in	5. 2 yd 1 ft 6 in	6. 8 lb 3 oz
7. 3 gal 2 qt	8. 5 yd 1 in	9. 378 mm
10. 0.789 km	11. 714 mL	12. 0.659 kg
13. 240 minutes; 14,400 seconds	14. 2 hours 55 minutes	15. 16 hours 5 minutes