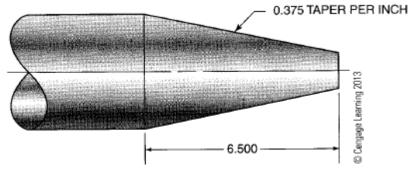
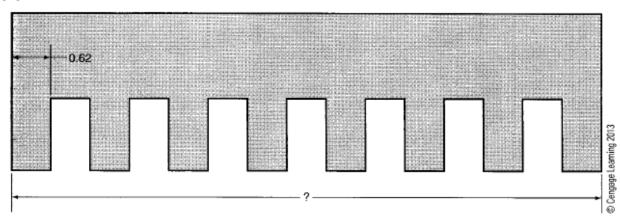
Name:	Date: 3/25/15
Mathematics Period 3	Ms. Wilson

Multiplying Decimals Classwork

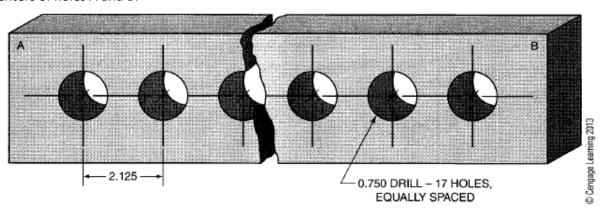
- 1.) A bolt has a diameter of 1.375 inches. The threaded length of the bolt is 2 times the diameter, plus 0.250 inch. What is the threaded length of the bolt in inches?
- 2.) A designer knows that for each complete turn of a wheel, the wheel rolls a distance approximately equal to 3.14 times its diameter. How far in inches does a 12.6 inch-diameter wheel roll after three complete turns?
- 3.) A CAD drafter's salary is increased by \$63.28 per month. What is the drafter's total raise for the year?
- 4.) A CAD drafter drives 45.5 miles to work each day. What is his total round-trip mileage if the drafter works 165.5 days a year, and the distances remain the same?
- 5.) A USB flash drive costs \$9.99. Calculate the cost of three drives. What would be the cost of a gross of drives? (1 gross = 12 dozen)
- 6.) A shaft is tapered 0.375" per inch of its length. By how many inches is the CAD drawing of the shaft below tapered?



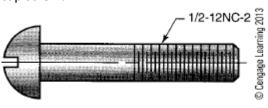
7.) All sections on this CAD drawing of a gague have equal widths. What is the overall length of the gague?



8.) There are 17 equally spaced holes on this CAD drawing of a plate. Calculate the distance between the centers of holes A and B.



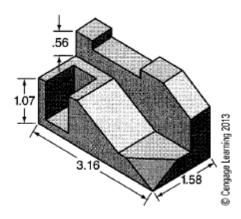
9.) This round-head cap screw has a thread pitch of 1/12; that is, 12 threads per inch. How many threads are contained in a rod that is 11.625 inches long and has the same thread pitch as the CAD drawing of this cap screw?



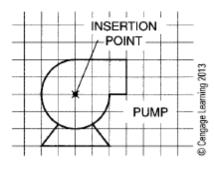
Name:	Date: 3/25/15
Mathematics Period 3	Ms. Wilson

Multiplying Decimals Homework – Due 3/26/15

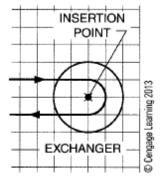
1.) Determine the height, width, and depth after this isometric CAD drawing of an object is scaled up by a factor of 4.



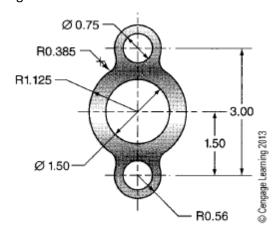
2.) This pump symbol is to be inserted into a CAD drawing at 6 times its present size. Calculate the new height and width of the pump if the grid size is 0.125.



3.) The symbol for an exchanger used in piping is shown on a 0.25 grid. The symbol is inserted using a 1.75 scaling factor. Calculate the enlarged sizes for its height and width.



4.) The CAD drawing below is to be scaled up by a factor of 5. Calculate the new dimensions for its length and width.



5.) Determine dimension A and the overall width and height of the CAD drawing of the shim below.

