## Quiz 7

This is a two-stage quiz. During the first stage, use your knowledge & calculator to take this quiz. You have 15 min. In the second stage, you are now welcome to use your books, notes, and students in the class to retake the same quiz. You have 15 min. to write one solution (with everyone's name on it!!!) to be turned in for the group.

Show your work as you would for a *colleague*. Partial credit requires reasonable support.

[3] Suppose you need to drill a  $\frac{3}{8}$ -inch hole, but the set of drill bits is measured in sixteenths of an inch. What size drill bit should you use? Provide some justification.

Statush (1.5) We need to had a function with lange (1) equivient to  $\frac{3}{8}$  inch (size of hale)

1) What lange (1) equivient to  $\frac{3}{8}$  inch (size of hale)

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2)  $\frac{3 \cdot 3}{8 \cdot 3}$  (b)  $\frac{3}{8}$  b) work

2. [2] Simplify the fraction as much as possible (if possible):  $\frac{9a}{6+3a}$ 

9a = 3.3.a = 3/2 = 3/2 factor number (15)

(013a = 3(2+1a) = 3/2 a factor number (15)

3. [5] Perform the operations below. Leave answers in factored form and as reduced fractions. Assume all letters are real numbers and that no combination of symbols equal zero in the denominator.

$$35.3 \pm 14f$$

Algorithm. (+) (a)  $\frac{2}{3} \div \frac{1}{6} = \frac{2 \div 1}{3 \div 6} = \frac{2}{3} = \frac{2$ 

Marlin 2

ES3 \*18

common denominator (1) add numeraturs (1.1.) respect ordered up/ Common tens (9)

a(a+1) = 4a+1 1