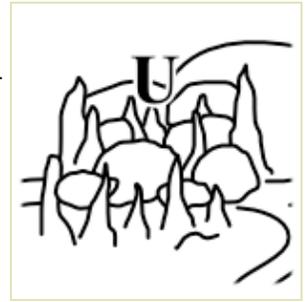# Review for Unit Parts Quiz

Thursday 12/4/08

Name:
Homeroom:
Mr. Z.'s Science Class
12/4/08

What you need to know

The "quiz" tomorrow is just a "checkpoint" to make sure we are ready to continue on past the Forest of Unit Parts. So, it doesn't count for a lot (only 20 points) and it will only take part of the period, but you want to do well (15 or better) so that you can get a star on the U step of your syllabus, showing that you have successfully passed that obstacle.
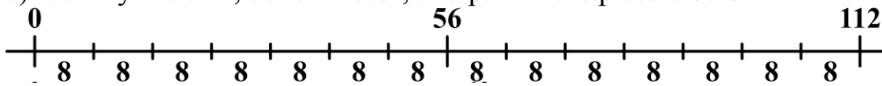
The checkpoint covers only what we have done this week:
- Splitting up a unit into some number of parts, whether drawn as a box or drawn as multiples of the unit on a number line
- Identifying what is the unit, the denominator, and the part, in sentences, in pictures of units, and in pictures of number lines
- Writing relationships like "$1/9 \times 72 = 8$" or "a fifth of a grok is a lirr" in both math and words, and translating between the two
- Drawing a number line to show a unit-part relationship

If you can do all the problems on this homework, you are in good shape. The checkpoint will also only be about as long as this homework.

Identifying unit, denominator, and part

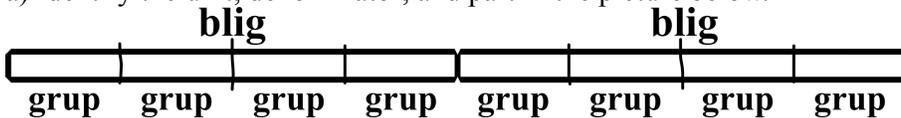1. a) Identify the unit, denominator, and part in the picture below.

0	56	112
8 8 8 8 8 8 8 8 8 8 8 8 8 8		

Unit:	Denominator:	Part:

      b) In English: A _____ of a _____ is a _____.

      c) In math symbols: $\dfrac{1}{} \quad = $

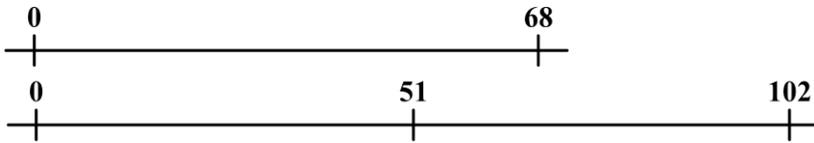2. a) Identify the unit, denominator, and part in the picture below.

blig   **blig**

grup **grup** **grup** **grup** **grup** **grup** **grup** **grup**

Unit:	Denominator:	Part:

      b) In English: A _____ of a _____ is a _____.
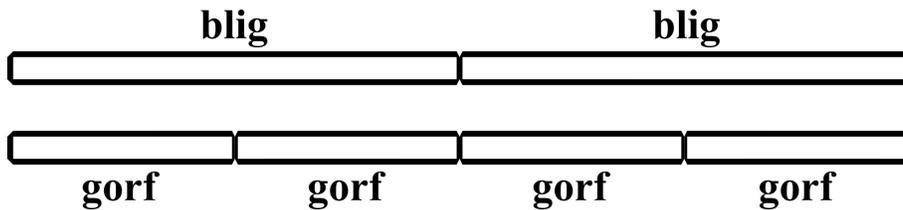
      c) In math symbols: $\dfrac{1}{} \quad = $

Writing equivalences

3. a) Mark up the number lines below to show me that **"A third of fifty one is the same as a fourth of sixty eight."**

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0                        68
+----+----+----+----+----+
0                  51          102
+----+----+----+----+----+
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b) How would I write "A third of fifty one is the same as a fourth of sixty eight" in math symbols?

4. a) Mark up the units below to show me that **"$\frac{1}{4}$ gorf = $\frac{1}{8}$ blig."**

blig   **blig**

[ ]

gorf   **gorf**   **gorf**   **gorf**

b) How would I write "$\frac{1}{4}$ gorf = $\frac{1}{8}$ blig" in words?

Drawing number lines

Remember to draw at least the first two multiples of the unit.

5. Below, draw a number line in which units 50 long are split in fifths, and mark how long each piece is.

6. Below, draw a number line in which units 42 long are split into pieces 14 long. You will have to figure out the denominator in order to draw this correctly.

7. Below, draw a number line in which the units are split into four pieces, with each of the pieces 15 long. You will have to figure out what the unit is.