Practice Sheet #6 Name _____

Solve. Show your work.

1. $-5+4t=-33$	6. $\frac{3}{8}+\frac{4}{5}-3\frac{2}{5}$
2. $32+(-4)^3+3$	7. If a=6, then what is n? $a=4n+18$
3. $\frac{3}{4}=\frac{4}{5}q$	8. $43.62-6.2\times 4$
4. $109+(-21.6e)\leq 1$	9. $\lvert -6r+3\rvert > 33$
5. $50+(-40)+75+(-50)$	10. $-4(-3x+3)$

11. Fill in the blank with <, >, or = $-3 \_\_\_ -7$	14. $-4.2 + 8.1 \times (-1.9)$
12. $(-\frac{2}{3})^2 - \frac{3}{4}(2\frac{1}{3})$	15. $5(\frac{7}{8} \bullet \frac{2}{5})$
13. $4 + 5 - (\frac{3}{5})$	16. $-3\frac{4}{5} - 9$

Have Some Pie!

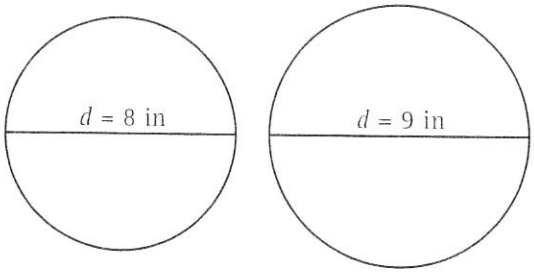
For Better or For Worse **by Lynn Johnston**

1. Which piece is larger, 1/6 of the pie or 1/4 of the pie? How much larger?

2. The cartoon shows two large pieces, 1/3 and 1/4. After these two pieces are eaten, how much of the pie remains for the other four pieces?

3. Sara divides 1/2 of the blueberry pie into three pieces. One piece equals 1/3 of the whole pie, and the other two pieces are the same size as each other. How large is each of the smaller pieces? (Hint: draw a picture!)

4. **Challenge:** Would you rather have a serving that is 1/3 of an 8-inch pie or a serving that is 1/4 of a 9-inch pie? Show your work, and justify your answer.



"Not So Hairy" Cut

HERMAN®

by Jim Unger

"Just cut off a dollar's worth."

1. A "dollar's worth" is what fractional part of a haircut?

2. If a "dollar's worth" haircut is trimming 237 hairs, how many hairs are on the gentleman's head? How do you know?

3. **Challenge:** The average number of hairs on a person's head depends on the hair color. Blonds have about 140,000 hairs; brunettes have about 108,000 hairs; and redheads have about 90,000 hairs. After a "dollar's worth" haircut, approximately how many uncut hairs would be left on a head of each color? Show your work below.

   Blonds: Brunettes: Redheads:

4. Human hair grows, on average, 1/2 inch a month. Each individual hair grows about 26 inches in its lifetime. At that rate, how long would an individual hair be alive and growing?

5. The *Guinness Book of World Records* reports the longest human hair length at 13 feet, 10 1/2 inches. At the normal growth rate, how long would a person take to grow hair that long?