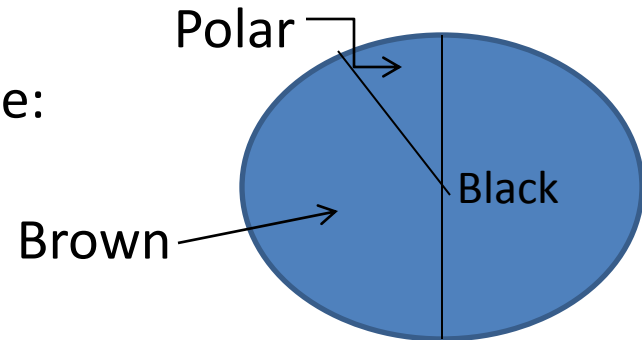# Do Now

1. Convert $0.\overline{6}$ to fraction

2. Convert $0.\overline{142857}$ to fraction

3. Convert 0.25 to fraction

4. Convert $0.4\overline{8}$ to fraction

Ratios, Decimals & Percents P. 129

1. Objective today is to use fractions with denominators of 100 to compare sets.

2. The following equivalent fractions are:

a. 50,000/100,000 = 50/100

b. 40,000/100,000=40/100

c. 10,000/100,000=10/100

Polar

Black

Brown

3. The equivalent fractions tells that if the bear population in Alaska were 100, there would be 50 black bears, 40 brown bears and 10 polar bears.

4&5. Suppose there are 5 bananas, 3 green apples & 2 lemons in a basket. Out of 10 fruits 7 are yellow and 3 are green. The fractions 7/10 and 3/10 describe the fruits when they are arranged by color.

6.   A ratio is a fraction that compares 2 quantites.

7.   A percent is a ratio between a number and 100. The symbol used to represent a percent is %.

8.   The ratio 100/100 as a percent is 100%.

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Diet of Bear	Amount	Equivalent fraction	Decimal	percent
Nut & Berries	½	50/100	0.5	50 %
Insects	1/10	10/100	0.1	10%
Meat & fish	¼	25/100	0.25	25%
Plants	3/20	15/100	0.15	15%

9. We can write a fraction with a denominator of 100 as a percent by writing the % sign beside the numerator.

10. Referring to the black bear population in Alaska, the 4 ways of writing the black bear to the total bear population are: 50,000, 50000/100000, 50/100 or 50%

11. See table.

12. To write a fraction as a percent, first express the fraction as an equivalent fraction in 1/100

13. The fractions as an equivalent fraction in hundredths, then as a percent.(see Table)

14. A bear's total diet is represented by 100%

Page 130 (continued)

15. Express each fraction as a decimal in hundredths (1/100)
a. 50/100 = 0.5
b. 10/100 = 0.1
c. 25/100 = 0.25
d. 15/100 = 0.15
16. The 4 ways shown on in the table that express the ratio of meat & fish in a bear's diet to a bear's total diet are:

25%, ¼, 25/100, 0.25

Feb 27 Homework

Math III (Due March 6) —1. In the reader, pages 131-136 all.

2.   (Due March 13) Elementary Math Olympiad booklet, Chapter 6, Making an organized list, pages 37-39 (#6-10, #16-20)

Math IV (Due March 13)–

1. In the reader, pages 131-136 all.

2.   Four Worksheets in the reader before page 131, *Problems solving with proportions* and three *Percents* worksheets (look for Carson-Dellosa on left page bottom, pages 37-40)

3.   Elementary math Olympiad in the back of the reader, Chapter 6, #1-20 all

 Reminder: Next week, March 6, is the last of the Math Olympiad Contest.