

Percentages

Converting Percentages to Fractions

% to Fractions

- 1) It's even easier.
- 2) A percentage is always "out of 100".
- 3) So all you do is write the percentage as the top, and 100 as the bottom of the fraction.

EXAMPLE:

Convert 47% to a fraction.

ANSWER: 47 goes at the top.

$$\frac{47}{100}$$

100 goes at the bottom.

EXAMPLE:

3% of astronauts would rather spend their holidays in Barrow-on-Sea than on Jupiter. What fraction is this?

ANSWER:

3 goes at the top.

$$\frac{3}{100}$$

100 goes at the bottom.

Hey - it's all just too easy for me.



Fractions to Percentages — Slightly Trickier

Converting fractions to percentages is a tiny bit harder, but let's face it, how easy do you want these pages to be?

Fractions to %

- 1) All you have to do is convert the fraction to a decimal first.
- 2) I'd use a calculator if I were doing it.
- 3) Then turn it into a percentage like before.

EXAMPLE:

Write $\frac{39}{150}$ as a percentage.

ANSWER:

Using a calculator,

$$39 \div 150 = 0.26 \text{ (decimal).}$$

Now turn it into a percentage...

$$0.26 \times 100 = 26\%.$$

EXAMPLE:

Last year, Frank's racing camel won $\frac{30}{200}$ of the races it entered.

Hank's racing goose won $\frac{28}{175}$ of its races last year.

Which animal won the bigger percentage of races?



ANSWER:

Start with Frank's camel.

Decimal first — get out the calculator. $30 \div 200 = 0.15$

Turn it into a percentage... $0.15 \times 100 = 15\%$.

Now do the same for Hank's goose. The decimal is $28 \div 175 = 0.16$

Turn it into a percentage... $0.16 \times 100 = 16\%$.

So **Hank's goose** won a bigger percentage of races than Frank's camel last year.