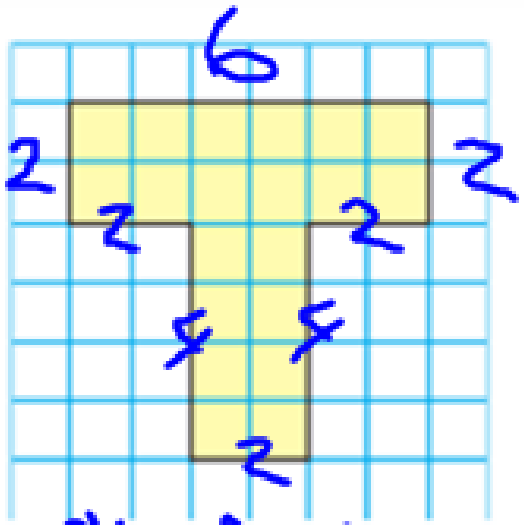
Change 150% to a decimal $\frac{150}{100} = 1.5$

So 150% means 1.5 times as big

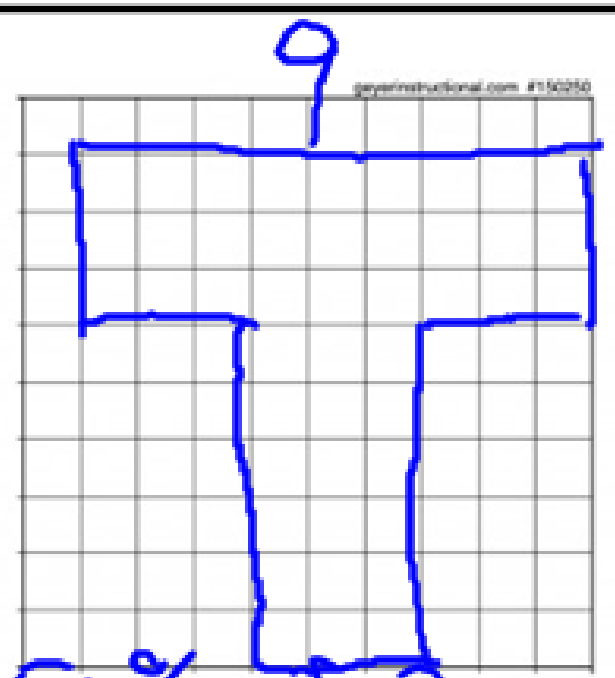
I could enlarge this picture by 150% which means every line must be 1.5 times bigger.

percent as a decimal x original amount = new amount



150% of 6

$\frac{150}{100} = 1.5 \times 6 = 9$



150% of 2

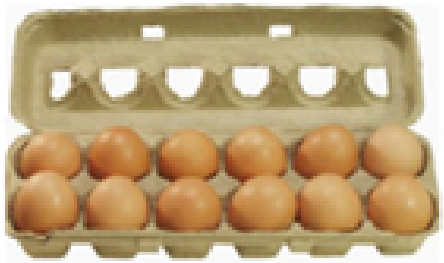
1.5x2 = 3

150% of 4

1.5 x 4

6

REMEMBER "OF" USUALLY MEANS MULTIPLY



percent as a decimal x original amount = new amount

How many eggs in a full carton? 12

100% of 1 carton is how many eggs? $\frac{100}{100} = 1$ $1 \times 12 = 12$

50% of 1 carton is how many eggs? $\frac{50}{100} = .5 \times 12 = 6$

150% of 1 carton is how many eggs? $\frac{150}{100} = 1.5 \times 12 = 18$

Easiest percentages are 100%, 10% and 1%

100% don't move the decimal at all, its the same

10% move the decimal one place to the left

1% move the decimal 2 places to the left

EX. 10% of 25

2.5

1% of 200

2

100% of 260

260

10% of 5

0.5

1% of 28

0.28

100% of 8

8

15% of 62

15% of 60

10% of 60 = 6

5% = 3

15% = 6 + 3 = 9

I use the easy ones to help me estimate the harder ones if I don't have a calculator

Ex. 25% of 340 discount on a TV

85

New price of TV = 340 − 85

= 255

Add tax 15% of 255

15% of 250

= 37

Total = 255 + 37 = 292

ESTIMATE FIRST THEN CALCULATE

23% of 30 $\frac{23}{100} = 0.23 \times 30 = 6.9$

146% of 8 $\frac{146}{100} = 1.46 \times 8 = 11.68$

5 ½% of 75

$\frac{1}{2} = 0.5$ so $5\frac{1}{2} = 5.5$ $5.5\% = \frac{5.5}{100} = 0.055 \times 75 = 4.125$

0.4% of 18 000 $\frac{0.4}{100} = 0.004 \times 18000 = 72$