Accelerated Math Notes Chapter 6 Find Percents of a Number Using Mental Math Strategies

125% of 24

10% of 450

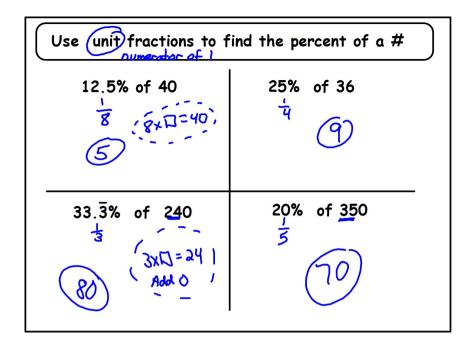
40% of 15

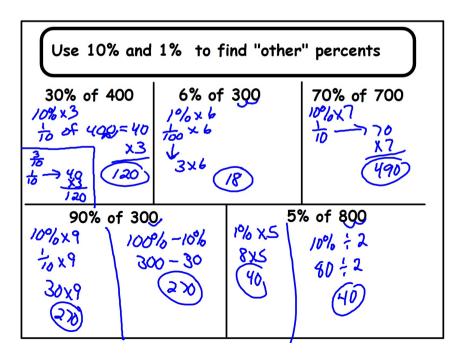
51% of 6000

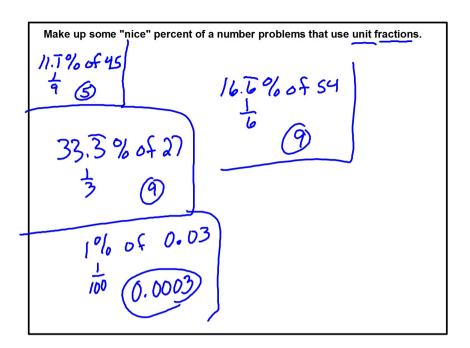
Use 10% and 1% to find the percent of a number easily.

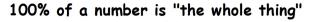
- 10% = $\frac{1}{10}$ which means to ÷ by 10 (move decimal point 1 place left)
- 1% = $\frac{1}{100}$ which means to ÷ by 100 (move decimal point 2 places left)

(ittere desiring point = pidess is)		
10% of 30	1% of 5000	10% of 700,
3	(60)	(10)

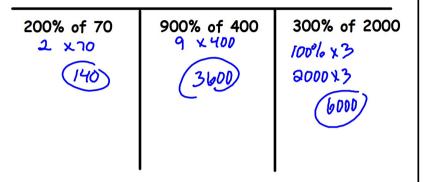








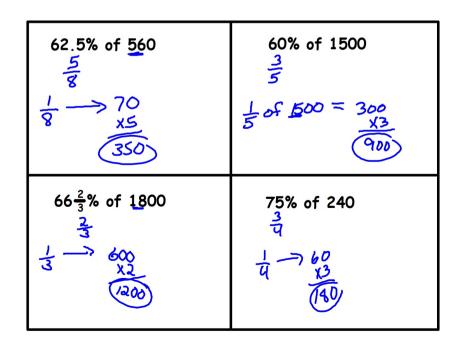
To find 200% of a number, double the number. To find 300% of a number, triple the number...

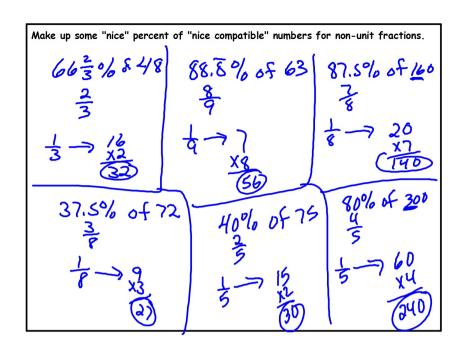


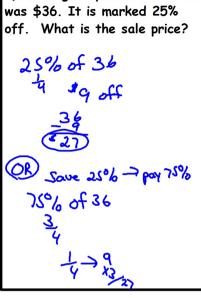
Remember

If $\frac{1}{3}$ of a number is 8, then $\frac{2}{3}$ (two thirds) of the number will be double that (2 x 8 or 16).

If $\frac{1}{8}$ of a number is 10, then $\frac{7}{8}$ (seven eighths) of the number will be 7 times that number (7 x 10 or 70)







much will the tip be?

2) How much sales tax will you 1)The original price of an item pay on a \$18,000 car if sales tax is 10% ? 10% of 18000

3) Enrollment at LMS was 480 students last year. This year it decreased by 12.5%. How many students are at LMS this year?

12.5% of 480

4) A store marks an item up $33\frac{1}{3}\%$. If they buy an item for \$18, how much will they mark it up?

5) Mr. Easton plans to leave a 6) Sara's allowance is 20% tip on his \$25 meal. How increased by 12.5%. If her present allowance is \$16, how much is her new allowance?

12,5% 04/6

20% of 25

7) Tim's monthly salary of \$4,000 is going to increase 1% buy has been discounted from next month. How much will his \$80 to \$60. What percent salary increase?

1% of 4000

8) The dress Hannah wants to discount is this?

We can use combinations of these "nice" percents to find the percent of a number.

15% of 400	51% of 300	110% of 60
10%+5%	50% +1%	100% + 10%
40 +20	150 + 3	60 + 6
0.5% of 4800 1% ÷2 48÷2	11% of 20, 10% + 1% 2 + .2	301% of 8000 300% + 1% 24000+ 10 24000

More Examples...

How many different ways can you find to calculate (exact answer)? 40% of 4500