

Name:

Date:

Finding Percentages Without Using A Calculator.

A strategy you could use to calculate a percentage of any number is to find:

10% (\div number by 10), 5% (half of 10%), 1% ($10\% \div 10$), 2% (double 1%) and 20% (double 10%).

Example:

	10%	5%	1%	2%	20%	
28	2.8	1.4	0.28	0.56	5.6	So, 32% of 28 = 20% + 10% + 2% = 5.6 + 2.8 + 0.56 = 8.96

Use this strategy to calculate the given percentage of the following numbers.

	10%	5%	1%	2%	20%	
50						43% of 50 =
34						52% of 34 =
88						64% of 88 =
63						75% of 63 =
92						85% of 92 =

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Use this strategy to calculate the given percentage of the following numbers.

	10%	5%	1%	2%	20%	
50	5	2.5	0.5	1	10	43% of 50 = $20\% + 20\% + 2\% + 1\% = 21.5$
34	3.4	1.7	0.34	0.68	6.8	52% of 34 = $20\% + 20\% + 10\% + 2\% = 17.68$
88	8.8	4.4	0.88	1.76	17.6	64% of 88 = $(3 \times 20\%) + 2\% + 2\% = 56.32$
63	6.3	3.15	0.63	1.26	12.6	75% of 63 = $(3 \times 20\%) + 10\% + 5\% = 47.25$
92	9.2	4.6	0.92	1.84	18.4	85% of 92 = $(4 \times 20\%) + 5\% = 78.2$