Percent Problems Practice   Name: ___Key___

Write each percent as a decimal.

1) 15%   2) 3.2%   3) 0.7%   ⚡ 4) 6%

.15   .032   .007   .06

5) 250%   6) 89%   7) 100%   ⚡ 8) 0.01%

2.5%   .89   1.0   .0001

Write each decimal as a percent

9) 0.62   10) 0.041   11) 0.002   12) 5
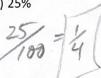
62%   4.1%   .2%   500%

Write each percent as a fraction in lowest terms.

13) 59%   14) 25%   15) 56%   16) 360%

$\frac{59}{100}$ $\frac{25}{100}=\frac{1}{4}$ $\frac{56}{100}=\frac{14}{25}$ $\frac{360}{100}=\frac{36}{10}=\frac{18}{5}$

Find each answer.

17) What is 0% of 30?   ⚡ 18) What is 120% of 70?   19) 3 is what percent of 50?

$0 \cdot 30 = 0$ 1.20×70 $3 = p \cdot 50$
                           $= 84$ $\frac{3}{50} = \frac{50p}{50} \Rightarrow p = .06$
                                                                   $p = 6\%$

⚡ 20) 45 is what percent of 500?   21) 15 is 30% of what number?   ⚡ 22) 12 is 40% of what number?

$\frac{45}{500} = \frac{p \cdot 500}{500}$ $15 = .30 \times n$ $\frac{12}{.4} = \frac{.4 \times n}{.4}$

$.09 = p \quad p = 9\%$ $\frac{15}{.30} = \frac{.30}{.30}$ $\boxed{30 = n}$
                          $\boxed{50 = n}$

⚡ 23) What is 200% of 40?   ⚡ 24) What is 28% of 130?

$2 \times 40 = \boxed{80}$ $n = .28 \times 130$
                                   $= \boxed{n = 36.4}$

25) A sweater is marked down from an original price of $45 to $33.75. By what percent has the original price
of the sweater been marked down?

$\boxed{\% \ decr = \frac{orig - new}{orig}} = \frac{45 - 33.75}{45} = \frac{11.25}{45} = .25 = \boxed{25\%}$

26) Mary's grade on her research paper counts as 20% of her final grade in English. If there are a total of 400
points possible, how many points can she earn for her research paper?

20% of 400 pts

$.2 \times 400 = \boxed{80}$