



Warm Up Grade 8

Date: Oct. 16

BEFORE QUIZ



1) Use mental math to calculate the following (show work)

a) 75 % of 128 = 96 $\leftarrow \times 3$
 $\times 25\% \text{ of } 128 = 32$
 $\downarrow$
 $(\div 4)$

b) 80% of 16 = 12.8
 $10\% \text{ of } 16 = 1.6$
 $\times 8$
 $80\% \text{ of } 16 = 12.8$

c) 15% of 90 = 13.5
 $10\% \text{ of } 90 = 9$
 $5\% \text{ of } 90 = 4.5$
 $9 + 4.5 = 13.5$

2) Complete the chart (Always leave fraction in lowest terms)

	Fraction	Decimal	Percent
a	$\frac{17.5}{20} = \frac{85}{100}$	0.85	85%
b	$\frac{2}{100} = \frac{1}{50}$	0.02	2%
c	$\frac{14}{100} = \frac{7}{50}$	0.14	14%
d	$\frac{72}{10000}$ $= \frac{36}{5000}$ $= \frac{18}{2500}$ $= \frac{9}{1250}$	0.0072	0.72%



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1) Use mental math to calculate the following (show work)

a) 75 % of 128

$$\begin{aligned} &25\% \text{ of } 128 = 32 \\ &\quad (128 \div 4) \\ &\quad \times 3 \\ \hline &75\% \text{ of } 128 = 96 \end{aligned}$$

b) 80% of 16

$$\begin{aligned} &10\% \text{ of } 16 = 1.6 \\ &\quad \times 8 \\ \hline &80\% \text{ of } 16 = 13.4 \end{aligned}$$

c) 15% of 90

$$\begin{aligned} &10\% \text{ of } 90 = 9 \\ &\quad \div 2 \\ &5\% \text{ of } 90 = 4.5 \\ \hline &15\% \text{ of } 90 = 13.5 \end{aligned}$$

2) Complete the chart (Always leave fraction in lowest terms)

	Fraction	Decimal	Percent
a	$\frac{17}{20} = \frac{85}{100}$	0.85	85%
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75% of 128

$$\begin{array}{r} \div 2 \left(\begin{array}{l} 10\% \text{ of } 128 = 12.8 \\ \times 7 \\ \hline 70\% \text{ of } 128 = 89.6 \end{array} \right) \div 2 \\ + 5\% \text{ of } 128 = 6.4 \\ \hline 75\% \text{ of } 128 = 96.0 \end{array}$$

Worksheet

also on next 4 pages

Percentage of a Number

Name: Solution s Score: _____

Calculate and round off to the nearest hundredth.

$$\begin{array}{l} 27\% \text{ of } 120 \\ 0.27 \times 120 \\ 32.4 \end{array}$$

$$\begin{array}{l} 32\% \text{ of } 163 \\ 0.32 \times 163 \\ 52.16 \end{array}$$



$$\begin{array}{l} 2.1\% \text{ of } 251 \\ 0.021 \times 251 \\ 5.271 \end{array}$$

$$\begin{array}{l} 16\% \text{ of } 29 \\ 0.16 \times 29 \\ 4.64 \end{array}$$

$$\begin{array}{l} 76\% \text{ of } 322 \\ 0.76 \times 322 \\ 244.72 \end{array}$$

$$\begin{array}{l} 8.5\% \text{ of } 145 \\ 0.085 \times 145 \\ 12.325 \end{array}$$

$$\begin{array}{l} 31\% \text{ of } 199 \\ 0.31 \times 199 \\ 61.69 \end{array}$$

$$\begin{array}{l} 66\% \text{ of } 188 \\ 0.66 \times 188 \\ 124.08 \end{array}$$

$$\begin{array}{l} 28\% \text{ of } 52 \\ 0.28 \times 52 \\ 14.56 \end{array}$$

$$\begin{array}{l} 4.6\% \text{ of } 212 \\ 0.046 \times 212 \\ 9.752 \end{array}$$

$$\begin{array}{l} 113\% \text{ of } 62 \\ 1.13 \times 62 \\ 70.06 \end{array}$$

$$\begin{array}{l} 2.99\% \text{ of } 25 \\ 0.0299 \times 25 \\ 0.7475 \end{array}$$

$$\begin{array}{l} 27\% \text{ of } 48 \\ 0.27 \times 48 \\ 12.96 \end{array}$$

$$\begin{array}{l} 8.2\% \text{ of } 45 \\ 0.082 \times 45 \\ 3.69 \end{array}$$

$$\begin{array}{l} 71\% \text{ of } 76 \\ 0.71 \times 76 \\ 53.96 \end{array}$$

$$\begin{array}{l} 7.9\% \text{ of } 35 \\ 0.079 \times 35 \\ 2.765 \end{array}$$

$$\begin{array}{l} 21\% \text{ of } 225 \\ 0.21 \times 225 \\ 47.25 \end{array}$$

$$\begin{array}{l} 38\% \text{ of } 42 \\ 0.38 \times 42 \\ 15.96 \end{array}$$

$$\begin{array}{l} 7.1\% \text{ of } 588 \\ 0.071 \text{ of } 588 \\ 41.748 \end{array}$$

$$\begin{array}{l} 51\% \text{ of } 66 \\ 0.51 \times 66 \\ 33.66 \end{array}$$

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Name: _____ Date: _____

Percentage of Number Worksheet

Calculate the percentages.

1 a. 150% of 50 1.5×50 75	1 b. 150% of 90 1.5×90 135
2 a. 100% of 60 1×60 60	2 b. 50% of 100 0.5×100 50
3 a. 350% of 70 3.5×70 245	3 b. 150% of 70 1.5×70 105
4 a. 350% of 50 3.5×50 175	4 b. 350% of 90 3.5×90 315
5 a. 450% of 100 4.5×100 450	5 b. 200% of 30 2×30 60
6 a. 250% of 50 2.5×50	6 b. 350% of 40 3.5×40
7 a. 350% of 80 3.5×80 280	7 b. 150% of 100 1.5×100 150
8 a. 400% of 80 4.0×80 = 320	8 b. 300% of 50 3.0×50 150