

PERCENT OF A NUMBER - A

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HELPFUL EXAMPLE

1 CHANGE PERCENT TO DECIMAL. REMEMBER, IF THE DECIMAL IS NOT IN SIGHT IT'S ON THE RIGHT.

2 CHANGE "OF" TO MULTIPLICATION AND SOLVE.

→
 $30\% \text{ OF } 120 = \underline{\quad}$ ⇨ $.30 \text{ OF } 120 = \underline{\quad}$ ⇨ $.30 \times 120 = \underline{36}$

WHEN CHANGING A PERCENT TO A DECIMAL, **ALWAYS** MOVE THE DECIMAL TWO SPACES TO THE LEFT.

SHOW YOUR WORK

$$\begin{array}{r} 120 \\ \times .30 \\ \hline 3600 \end{array} \rightarrow \begin{array}{r} 120 \\ \times 30 \\ \hline 3600 \end{array} \rightarrow \begin{array}{r} 120 \\ \times 30 \\ \hline 36.00 \end{array}$$

FILL IN THE EMPTY SPACE.

1. $50\% \text{ OF } 16 = \underline{8}$ 2. $20\% \text{ OF } 100 = \underline{20}$ 3. $10\% \text{ OF } 60 = \underline{6}$
 $.50 \times 16 =$

4. $40\% \text{ OF } 35 = \underline{14}$ 5. $75\% \text{ OF } 200 = \underline{150}$ 6. $25\% \text{ OF } 28 = \underline{7}$

7. $100\% \text{ OF } 59 = \underline{59}$ 8. $30\% \text{ OF } 50 = \underline{15}$ 9. $60\% \text{ OF } 15 = \underline{9}$

10. $10\% \text{ OF } 83 = \underline{8.3}$ 11. $80\% \text{ OF } 95 = \underline{76}$ 12. $50\% \text{ OF } 54 = \underline{27}$

13. $70\% \text{ OF } 30 = \underline{21}$ 14. $20\% \text{ OF } 14 = \underline{2.8}$ 15. $100\% \text{ OF } 47 = \underline{47}$

16. $25\% \text{ OF } 8 = \underline{2}$ 17. $40\% \text{ OF } 100 = \underline{40}$ 18. $90\% \text{ OF } 20 = \underline{18}$

PERCENT OF A NUMBER - B

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HELPFUL EXAMPLE

1 SINCE WE'RE WORKING IN THE OPPOSITE DIRECTION WE DON'T MULTIPLY BUT DIVIDE 12 BY 20.

2 CHANGE DECIMAL TO PERCENT BY MOVING DECIMAL TWO PLACES TO THE RIGHT.

←
 $\underline{\quad}\% \text{ OF } 20 = 12$ ⇨ $\underline{\quad}\% \text{ OF } 20 = 12$ ⇨ $\underline{60\%} \text{ OF } 20 = 12$

THE % (FIRST PART) IS MISSING. THIS TELL US WE HAVE TO SOLVE THE PROBLEM BACKWARDS OR IN THE OPPOSITE DIRECTION.

SHOW YOUR WORK

$$\begin{array}{r} 20 \overline{)12} \rightarrow 20 \overline{)12.0} \rightarrow 20 \overline{)12.00} \rightarrow \underline{.60} \\ \underline{00} \\ 000 \end{array}$$

FILL IN THE EMPTY SPACE.

1. $\underline{25\%} \text{ OF } 8 = 2$ 2. $\underline{30\%} \text{ OF } 100 = 30$ 3. $\underline{50\%} \text{ OF } 24 = 12$

$8 \overline{)2}$

4. $\underline{90\%} \text{ OF } 60 = 54$ 5. $\underline{20\%} \text{ OF } 55 = 11$ 6. $\underline{100\%} \text{ OF } 76 = 76$

7. $\underline{40\%} \text{ OF } 12 = 4.8$ 8. $\underline{75\%} \text{ OF } 20 = 15$ 9. $\underline{60\%} \text{ OF } 35 = 21$

10. $\underline{70\%} \text{ OF } 10 = 7$ 11. $\underline{10\%} \text{ OF } 40 = 4$ 12. $\underline{20\%} \text{ OF } 28 = 5.6$

13. $\underline{100\%} \text{ OF } 99 = 99$ 14. $\underline{80\%} \text{ OF } 75 = 60$ 15. $\underline{40\%} \text{ OF } 120 = 48$

16. $\underline{50\%} \text{ OF } 82 = 41$ 17. $\underline{90\%} \text{ OF } 150 = 135$ 18. $\underline{30\%} \text{ OF } 61 = 18.3$