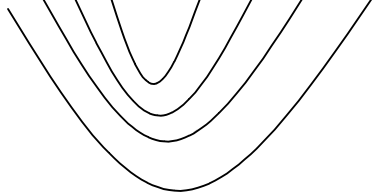


Percentage of a Whole Number 2

Since we know that the % sign means 'in every hundred' we can use the factors of 100 to help us calculate percentages quickly. Let's look at the factors of 100.

Factors of 100: 1, 2, 4, 5, 10, 20, 25, 50, 100



Notice how the factors of 100 pair up. 1×100 , 2×50 , 4×25 , 5×20 . 10 of course has no pair since $10 \times 10 = 100$. We can use this knowledge of factors to calculate some percentages quickly and easily.

Example: Find 50% of the number 840. How do we find 50% of something? Look at the pair of 50 in our factors of 100. Its pair is two. So we divide our number by two.

$$50\% \text{ of } 840 = 840 \div 2 = 420$$

What about 25% of 840?

Look at our factors and we can see the pair of 25 is 4 so we should divide by 4.

$$25\% \text{ of } 840 = 840 \div 4 = 210$$

Look at the problems below and see if you can calculate them in the same way:

1. 10% of 820 = _____

2. 50% of 368 = _____

3. 20% of 140 = _____

4. 2% of 600 = _____

5. 4% of 425 = _____

6. 5% of 180 = _____

ANSWERS

1. $10\% \text{ of } 820 = 820 \div 10 = 82$

2. $50\% \text{ of } 368 = 368 \div 2 = 184$

3. $20\% \text{ of } 140 = 140 \div 5 = 28$

4. $2\% \text{ of } 600 = 600 \div 50 = 12$

5. $4\% \text{ of } 425 = 425 \div 25 = 17$

6. $5\% \text{ of } 180 = 180 \div 20 = 9$