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## Dividingoy2mad3Singhatutums



Everyone should memorize the multiplication tables. Sometimes, though, there are other ways to quickly multiply and divide numbers by recognizing patterns.

To divide by 2 you can memorize the multiplication table, or you can recognize that dividing a number by 2 is just figuring out what half of the number is. For example:

6 divided by $2=3$. Half of 6 is 3 . You know this because $3+3$ is 6 . So, if you know half of 6 is 3 , then you know how to divide by 2 .

This works for bigger numbers too. 860 divided by $2=430$. This means that $430+430=860$ (which also means that 430 is half of 860 ). And 1,428 divided by $2=714$. This means that $714+714=1,428$ (which also means that 714 is half of 1,428 ).

To divide by 3 you can memorize the multiplication table, or you can recognize that dividing a number by 3 is just figuring out what one-third of the number is. For example:

6 divided by $3=2$. One-third of 6 is 2 . You know this because $2+2+2$ is 6 . So, if you know one-third of 6 is 2 , then you know how to divide by 3 .

This works for bigger numbers, too. 963 divided by $3=321$. This means that $321+321+321=963$ (which also means that 321 is one-third of 963 ). And 3,369 divided by $3=1,123$. This means that $1,123+1,123+1,123=3,369$ (which also means that 1,123 is one-third of 3,369 ).

Solve the division problems below using this method, and explain your answer.
Ex: 42 divided by $2=\ldots \ldots .21+21=42$. Therefore, half of $42=21$.

1. 40 divided by $2=$ $\qquad$ .
2. 44 divided by $2=$ $\qquad$ .
3. 68 divided by $2=$ $\qquad$ .
4. 100 divided by $2=$ $\qquad$ .
5. 146 divided by $2=$ $\qquad$ .

Ex: 42 divided by 3 = $\qquad$ $.14+14+14=42$. Therefore, one-third of 42 is 14.
6. 9 divided by $3=$ $\qquad$ .
7. 15 divided by $3=$ $\qquad$ .
8. 21 divided by $3=$ $\qquad$ .
9. 33 divided by $3=$ $\qquad$ .
10. 51 divided by $3=$ $\qquad$ .

