

## Part numbers

Mark Mac's phone starts with a battery life of 10 hours but loses half its life when charged.

How long before it has less than one hour at the next charge?

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What is the *half number* of Mark Mac's battery? \_\_\_\_\_

Using a spreadsheet, find out how much charge a battery with a half number of 4 can have.

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Now Mark's battery loses  $\frac{1}{4}$  of its life every time it is charged.

If it starts with a battery life of four hours, how long before it has less than an hour left?

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What is the *quarter number* of Mark Mac's battery? \_\_\_\_\_