Bond

Sailing club

Five boats sail out from a harbour.

- The fishing trawler sails out every **seven** days.
- The transporter sails out every **five** days.
- The yacht sails out every **three** days.
- The cruise boat sails out every two days.
- The ferry sails out **every** day.
- The boats all sail out from the harbour on the same day which is **day one**.

On what day will the five boats all sail out from the harbour together again? Use the notepad as a working out area.



Look for the common multiples of seven and five to start with.

Notepad



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Answer

The five boats will all sail out from the harbour together again on day 211.

The boats all leave on day 1 so our multiples will always be plus 1.

The fishing trawler and transporter are the first boats to consider so we are looking for multiples of 7 that are also multiples of 5. This means we are looking for multiples of 35.

The next boat to match to multiples of 35 is the yacht, which is every 3 days. The first multiple of 35 that is also a multiple of 3 is 105.

The cruise boat leaves every 2 days. The first multiple of 105 that is also a multiple of 2 is 210.

As all the boats sailed together on day 1, add 1 day to 210 to find the answer **211**.

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