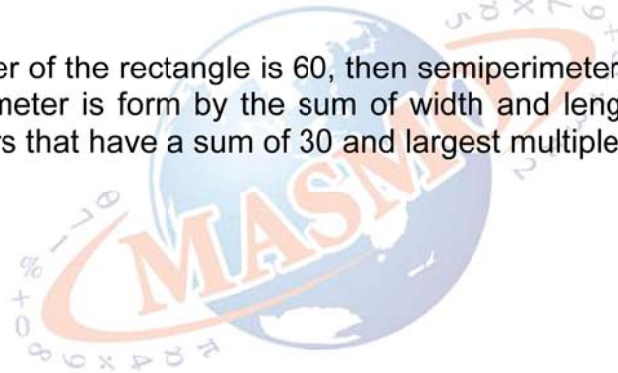




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**Hints**

- 1 If the perimeter of the rectangle is 60, then semiperimeter of the rectangle is 30. Semiperimeter is form by the sum of width and length. Try to find two prime numbers that have a sum of 30 and largest multiple.

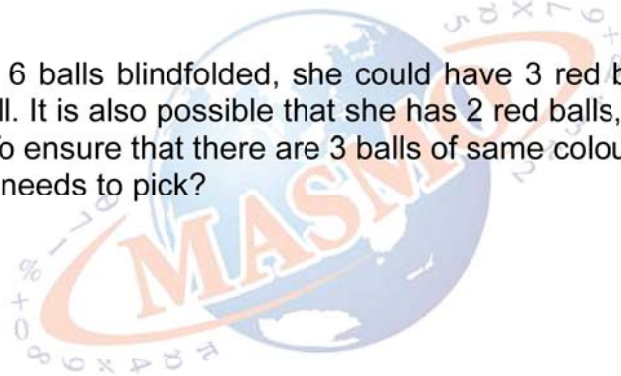




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**Hints**

- 2** If Angie picks 6 balls blindfolded, she could have 3 red balls, 2 white balls and 1 blue ball. It is also possible that she has 2 red balls, 2 white balls, and 2 blue balls. To ensure that there are 3 balls of same colour, how many extra balls that she needs to pick?

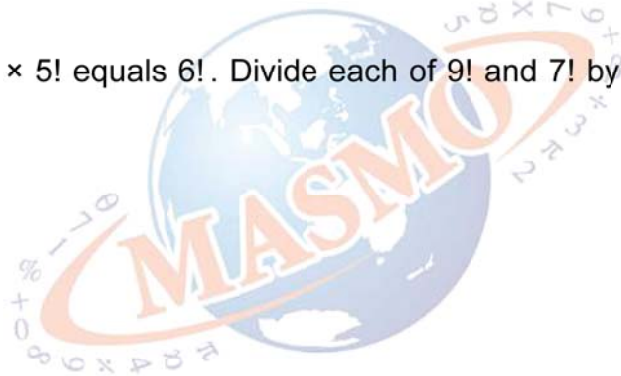




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**Hints**

- 3** Notice that  $3! \times 5!$  equals  $6!$ . Divide each of  $9!$  and  $7!$  by  $6!$ . Then take the difference.

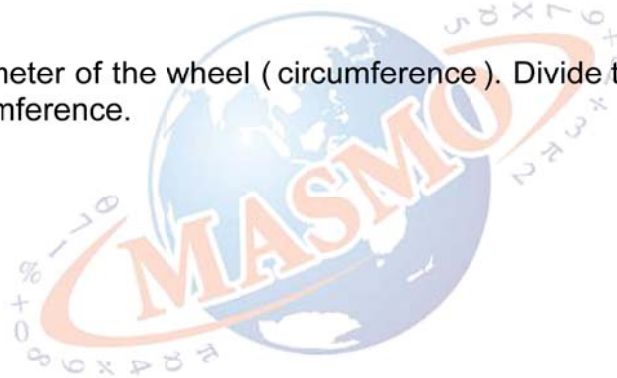




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**Hints**

- 4** Find the perimeter of the wheel (circumference). Divide the rolling distance with the circumference.





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### Hints

- 5** Try to plug in simple numbers to simplify our calculation. For example, let's assume Kenny caught 10 rats both in day 1 and day 2, then try to calculate how many more rats Sammy should catch in day 2 from here.

