

## Direct Proportion

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1) A recipe requires 3 eggs to make 7 cookies. [1]  
How many eggs will be needed to make 14 cookies?

2) A recipe requires 4 cups of sugar to make 8 cookies. [1]  
How many cups of sugar will be needed to make 24 cookies?

3) A recipe for pastry requires 180g of sugar to make 540g of pastry. [1]  
How many grams of sugar will be needed to make 5400g of pastry?

4) A recipe for pastry requires 160g of sugar to make 320g of pastry. [1]  
How many grams of sugar will be needed to make 40g of pastry?

5) A bottling machine makes 60 bottles in 11 hours. [1]  
How many bottles will it make in 16 hours?

6) A bottling machine makes 60 bottles in 5 hours. [1]  
How many bottles will it make in 3 hours?

7) After 35 games of a football season, Manchester United won 14 games and lost 21 games. [1]  
At this rate, how many games will they win in a 54 game season?

8) If Jesse walks 6 miles in 91 minutes, how many miles will he walk in 110 minutes? [1]

## **Solutions for the assessment Direct Proportion**

**1)** 6 eggs

**2)** 12 cups of sugar

**3)** 1800 g

**4)** 20 g

**5)** 87 bottles

**6)** 36 bottles

**7)** 22 games

**8)** 7.25 miles