

REVERSE PERCENTAGES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

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| 1. After a 20% increase, an amount is £144. Find the original amount. £120 | 2. After a 15% decrease, an amount is £85. Find the original amount. £100 |
| 3. After a 12% increase, an amount is £168. Find the original amount. £150 | 4. After a 8% decrease, an amount is £184. Find the original amount. £200 |
| 5. After a 25% increase, an amount is £250. Find the original amount. £200 | 6. After a 30% decrease, an amount is £140. Find the original amount. £200 |
| 7. After a 17% increase, an amount is £234. Find the original amount. £200 | 8. After a 22% decrease, an amount is £156. Find the original amount. £200 |
| 9. After a 35% increase, an amount is £270. Find the original amount. £200 | 10. After a 40% decrease, an amount is £120. Find the original amount. £200 |

11. After a 5% increase, an amount is £120. Find the original amount. | £120
12. After a 18% decrease, an amount is £246. Find the original amount. | £300
13. After a 27% increase, an amount is £381. Find the original amount. | £300
14. After a 33% decrease, an amount is £201. Find the original amount. | £300
15. After a 45% increase, an amount is £435. Find the original amount. | £300

MASTER QUESTIONS



- M1. A shop increases all prices by 15%. A coat now costs £115. What was its original price? | The original price was £100
- M2. After a 12% pay rise, Sarah's salary is £28,000. What was her salary before the rise? | Her previous salary was £25,000
- M3. A company's profits decreased by 8% this year to £92,000. What were last year's profits? | Last year's profits were £100,000
- M4. The population of a town increased by 6% over 5 years to 21,200. What was the population 5 years ago? | The population was 20,000
- M5. After a 22% discount, a television costs £312. What was its original price? | The original price was £400