
Reverse Percentages

Practice worksheet · KS3 · Years 7 to 9

Name: _____

Date: _____

The amount you're given is $(100 \pm \text{change})\%$ of the original. Find 1% by dividing, then times by 100. N

- 1.** A price falls by 10% to 45 pounds. Find the original price.

- 2.** A price falls by 20% to 240 pounds. Find the original price.

- 3.** A price falls by 25% to 150 pounds. Find the original price.

- 4.** A price falls by 30% to 140 pounds. Find the original price.

- 5.** A price falls by 15% to 170 pounds. Find the original price.

- 6.** A price falls by 40% to 180 pounds. Find the original price.

- 7.** A price rises by 10% to 88 pounds. Find the original price.

- 8.** A price rises by 20% to 360 pounds. Find the original price.

- 9.** A price rises by 25% to 250 pounds. Find the original price.

- 10.** A price rises by 5% to 210 pounds. Find the original price.

- 11.** A price rises by 50% to 300 pounds. Find the original price.

- 12.** A price falls by 12% to 220 pounds. Find the original price.

- 13.** A price rises by 15% to 253 pounds. Find the original price.

stretch

- 14.** A coat is 60 pounds in a 25% off sale. What was the original price? (pounds)

stretch

- 15.** After a 10% pay rise, Ken earns 275 pounds a week. What was his pay before? (pounds)

stretch

- 16.** A phone is 216 pounds after 10% off. Find the original price. (pounds)

stretch

Answers

Reverse percentages · mark it together

1. $90\% = 45 \rightarrow 1\% = 0.5 = 50$
2. $80\% = 240 \rightarrow 1\% = 3 = 300$
3. $75\% = 150 \rightarrow 1\% = 2 = 200$
4. $70\% = 140 \rightarrow 1\% = 2 = 200$
5. $85\% = 170 \rightarrow 1\% = 2 = 200$
6. $60\% = 180 \rightarrow 1\% = 3 = 300$
7. $110\% = 88 \rightarrow 1\% = 0.8 = 80$
8. $120\% = 360 \rightarrow 1\% = 3 = 300$
9. $125\% = 250 \rightarrow 1\% = 2 = 200$
10. $105\% = 210 \rightarrow 1\% = 2 = 200$
11. $150\% = 300 \rightarrow 1\% = 2 = 200$
12. $88\% = 220 \rightarrow 1\% = 2.5 = 250$
13. $115\% = 253 \rightarrow 1\% = 2.2 = 220$
14. $75\% = 60 \rightarrow 1\% = 0.8 = 80$
15. $110\% = 275 \rightarrow 1\% = 2.5 = 250$
16. $90\% = 216 \rightarrow 1\% = 2.4 = 240$