

Percent Increase and Decrease

7th Grade

Change over original — and why the original is always the bottom.

Percent change is the size of the change divided by the ORIGINAL amount, times 100.

$$\text{change} \div \text{original} \times 100$$

£40 → £52

30% increase

Change is 12; $12/40 = 0.3$.

£60 → £45

25% decrease

Change is 15; $15/60 = 0.25$.

Increase 80 by 15%

92

80×1.15 .

Decrease 80 by 15%

68

80×0.85 .

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× £40 → £52 is $12/52$

✓ it is $12/40$

You compare the change to where it started, not where it ended.

A 20% rise then a 20% fall does not return you to the start — the second 20% is of a bigger number.