

1. What multiplier increases by 10%?

$$1 + 0.10$$

Answer: 1.10

2. What multiplier decreases by 25%?

$$1 - 0.25$$

Answer: 0.75

3. Increase 80 by 20%.

$$80 \times 1.20$$

Answer: 96

4. Decrease 60 by 15%.

$$60 \times 0.85$$

Answer: 51

5. \$50 grows 6%: new amount?

$$50 \times 1.06$$

Answer: \$53

6. A \$200 phone drops 30%: new price?

$$200 \times 0.70$$

Answer: \$140

7. The multiplier is 1.045. What is the percent change?

$$1.045 - 1 = 0.045$$

Answer: 4.5% increase

8. The multiplier is 0.88. Percent change?

$$1 - 0.88$$

Answer: 12% decrease

9. Increase 100 by 10%, then DECREASE the result by 10%. Do you land back at 100? ★ challenge

$$100 \times 1.10 = 110$$

$$110 \times 0.90 = 99$$

Answer: No - 99 (order of % tricks!)

10. A price rises 20% then another 20%. What single multiplier is that, and what total % increase? ★ challenge

$$1.20 \times 1.20 = 1.44$$

Answer: x1.44 = 44% total (not 40!)