

Increase/Decrease by a Percentage



Red

- a) Increase 60 by 10%
- b) Decrease 50 by 10%
- c) Increase 75 by 10%
- d) Decrease 48 by 10%
- e) Increase 80 by 15%
- f) Decrease 180 by 15%
- g) Increase 50 by 45%
- h) Decrease 120 by 35%
- i) Increase 1200 by 1%
- j) Decrease 630 by 2%

Amber

- a) Decrease 90 by 10%
- b) Increase 120 by 15%
- c) Decrease 60 by 15%
- d) Increase 128 by 45%
- e) Decrease 360 by 35%
- f) Increase 350 by 1%
- g) Decrease 1200 by 3%
- h) Increase 175 by 12%
- i) Decrease 375 by 23%
- j) Increase 288 by 2.5%

Green

- a) Decrease 150 by 65%
- b) Increase 320 by 45%
- c) Decrease 980 by 1%
- d) Increase 385 by 6%
- e) Decrease 230 by 13%
- f) Decrease 450 by 27%
- g) Increase 230 by 2.5%
- h) Increase 295 by 4.5%
- i) Decrease 306 by 0.5%
- j) Increase 190 by 0.25%

Purple

- a) Increase 135.6 by 1%
- b) Decrease 180 by 33%
- c) Decrease 280 by 11%
- d) Increase 145 by 3.5%
- e) Decrease 22 by 0.75%
- f) £4,000 earns *simple interest* of 2% per year. How much is it worth after 4 years?
- g) £3,200 earns *simple interest* of 3.5% per year. How much is it worth after 3 years?
- h) £10,000 earns *compound interest* of 1.2% per year. How much is it worth after 5 years?
- i) A £6,000 car depreciates by 17% per year. How much is it worth after 5 years?
- j) Caffeine has a half-life of $5\frac{1}{2}$ hours. A can of coke has 30mg of caffeine. How long will it take for less than 1mg to remain in a person's system?