

Excellence

- 1.** A student says increasing 80 by 25% gives 85. Are they correct? Explain.
- 2.** A student says decreasing 120 by 15% gives 102. Are they correct? Explain.
- 3.** Increase 250 by 18%.
- 4.** Increase 64 by 12.5%.
- 5.** Increase 180 by 37.5%.
- 6.** Decrease 240 by 17.5%.
- 7.** Decrease 160 by 12.5%.
- 8.** Decrease 320 by 37.5%.
- 9.** A jacket costs 120 dollars and is marked up by 15%. What is the new price?

- 10.** A tablet costs 400 dollars and is discounted by 22%. What is the sale price?
- 11.** A car value of 18,000 dollars falls by 12%. What is the new value?
- 12.** A café increases a 6.40 dollar smoothie by 25%. What is the new price?
- 13.** Fill in the blank: increasing 96 by 12.5% gives .
- 14.** Fill in the blank: decreasing 500 by 18% gives .
- 15.** Which is greater: increasing 160 by 12.5% or decreasing 240 by 25%? Show enough working to justify.
- 16.** Which is smaller: increasing 80 by 35% or decreasing 130 by 10%? Explain.
- 17.** A price is increased by 10% and then decreased by 10%. Does it return to the start? Use 100 as an example.
- 18.** Explain why decreasing by 25% is not the same as multiplying by 0.25.