

**Big investigation – how tall is the school?**

## ANSWER KEY

a) Method 1 – shadow + 1 m stick:  $\frac{\text{school shadow}}{\text{stick shadow}} \times 1 =$  ,

b) Method 2 – count bricks:

$\text{brick count} \times \text{brick height (cm)} \div 100 =$  ,

c) Method 3 – count storeys:  $\text{storeys} \times \approx 3 \text{ m per storey} =$  ,

d) Compare: are two estimates within 10% of each other? (Y/N): ,

e) Which estimate do you trust most? Why?: ,

Q1: 25

Q2: step of 5

Q3: 34.5

Q4: 25 m

## EXTENSION SHEET · STRETCH ANSWERS

S1: 32.5

S2: 3.29 km

S3: 35.5

S4: 0.07628 km

S5: 0.05969 km