

Q1 - Answer = c

Q2 - Problem A - Last name A-K

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■ A foot = 12 inches and 1 in = 2.54 cm. How many  $\text{cm}^2$  in a square area 1 foot on a side?

■ a) 144

■ b) 30.5

■ c) 929  $A (\text{cm}^2) = [12 \text{ in} \times 2.54 \text{ cm/in}]^2 = 929 \text{ cm}^2$

■ d) 6.45

■ e) 366

Q1 - Answer = c

Q2 - Problem B - Last Name L-Z

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- A square area 1 mile on a side contains 640 acres. Recalling that 1 mile = 1.6 km and 1 km =  $10^3$  m, how many  $m^2$  in an acre?
  - a) 4,000 640 acres =  $[1.6 \text{ km} \times 1000\text{m/km}]^2 = 256,000 \text{ m}^2$ ; 1 acre =  $256,000/640 = 4,000\text{m}^2$
  - b) 2.5
  - c) 610
  - d) 25
  - e) 2,560