1. Purple = 5 squares   Green = 4 squares
   Yellow = 2 squares   Orange = 1 square

2. Summeya's method would be better as the squares cover the whole surface whereas the circles have spaces and gaps all around them leaving parts of the area unaccounted for.

3. a) $8cm^2$ b) $3cm^2$ c) $9cm^2$

Challenge

   1. $3\ cm^2$ 2. $10\ cm^2$ 3. $6\ cm^2$ 4. $4\ cm^2$ 5. $11\ cm^2$

   6. $6\ cm^2$ 7. $16\ cm^2$ 8. $12\ cm^2$ 9. $5\ cm^2$