

p 190 1 → 5, 8, 9, 11, 12

1. D
 2. $49 \times 6 = 294 \text{ cm}^2$ B

3. D


4. $2(18 \times 20) + 2(20 \times 5) + 2(18 \times 5) = 720 + 200 + 180 = 1100 \text{ mm}^2$
C.

5. $SA = 2\pi(3)^2 + 2\pi(3)(30.5)$
 $= 18\pi + 183\pi$
 201π or 631.14 cm^2 C.


8. $SA = 2(13.5 \times 19) + 2(14 \times 9) + 2(13.5 \times 14)$
 $513 + 53.2 + 37.8$
 604 cm^2

9. $\frac{1014}{6} = 169 \text{ cm}^2$ (area of face) $\sqrt{169} = \underline{\underline{13 \text{ cm}}}$ edge length

11.



SA = 635.85



SA = 540.47

↑
greater.

12. Arrangement # 1: $2(280) + 2(50) + 2(140) = 940 \text{ cm}^2$

Arrangement # 2: $2(280) + 2(100) + 2(70) = 900 \text{ cm}^2$

uses less plastic wrap.