4. $(3+(-3)^2-5(3-7)^2)+1$

$= (3+(-3)^2-5(-4)^2)+1$

$= (3+(+9)-5(16))+1$

$= (3+9-80)+1$

$= -67$

Π

5. $-5^2+(4+(-2)^2-3)^3$

$= -25 + (4+4-3)^3$

$= -25 + (5)^3$

$= -25 + 125$

$= 100$

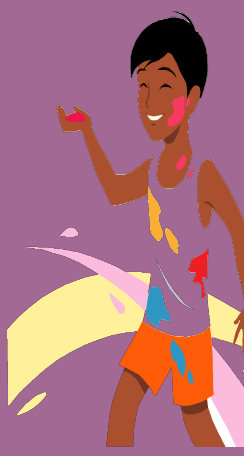
6. $((-4-(-3))^2)^2-(-5^3+2)^3)^2$

$= \left[\left((-4+3)^3\right)^2 - (-125+2)^3\right]^2$

$= \left[\left((-1)^3\right)^2 - (-123)^3\right]^2$

$= \left[1 - (-1860867)\right]^2$

$= 3.46 \times 10^{12}$



Lyn has a square swimming pool, 2 m deep with side length 4 m. The swimming pool is joined to a circular hot tub, 1 m deep with diameter 2 m. Lyn adds 690 g of chlorine to the pool and hot tub each week. This expression represents how much chlorine is present per 1 m^3 of water:

$$\frac{690}{2 \times 4^2 + \pi \times 1^3}$$

The suggested concentration of chlorine is 20 g/m^3 of water.
What is the concentration of chlorine in Lyn's pool and hot tub?
Is it close to the suggested concentration?

$$\frac{690}{2 \times 4^2 + \pi \times 1^3}$$

Please complete the following questions:

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3 a,c,e
4 a,c,e,g
5 e,g
7
8 a,f