Order of Operations

Evaluate (which means solve the expression... which is not an equation, because equations contain an "=" sign... dig it?!?)

1. $-2.5 + 4.5 \div 1.5$

2. $4 + 2 \cdot (6 - 2)$

3. $\dfrac{12 - 16 \div 4 + (-24)}{16 \cdot 2 - 4 \cdot 0}$

4. $\dfrac{6 + 15 \div 3 + 16}{6 + 10 \cdot 0}$

5. $\left(\dfrac{2 - (-4)^3}{5^2 - 7 \cdot 2}\right)^2$

6. $\dfrac{5^2 - 10}{3^2 + 6}$

7. $|6 \cdot (5 - 3^2)|$

8. $-6 \cdot (2 + |2 \cdot 3 - 4^2|)$

9. $\dfrac{81}{8} + \dfrac{13}{4} \div \dfrac{1}{2}$

10. $\dfrac{5}{12} \div \dfrac{1}{3} - \dfrac{7}{2}$

11. $-\dfrac{7}{20} + \dfrac{3}{8} \div \dfrac{1}{2}$

12. $\dfrac{21 - 3^2}{1 + 3}$

13. $\dfrac{5 + 3^2}{2 + 5}$

14. $\dfrac{3}{4} \cdot \left[\dfrac{5}{4} \div \left(\dfrac{3}{8} - \dfrac{1}{8}\right) - 3\right]$

15. $\left[\dfrac{9}{10} \div \left(\dfrac{2}{5} + \dfrac{1}{5}\right) + \dfrac{7}{2}\right] \cdot \dfrac{1}{10}$

16. $\left(\dfrac{4}{3}\right)^3 - \left(\dfrac{1}{2}\right)^2 \cdot \left(\dfrac{8}{3}\right) + 2 \div 3$

17. $\dfrac{1}{18} \cdot \dfrac{46}{5} - \left(\dfrac{2}{3}\right)^2$
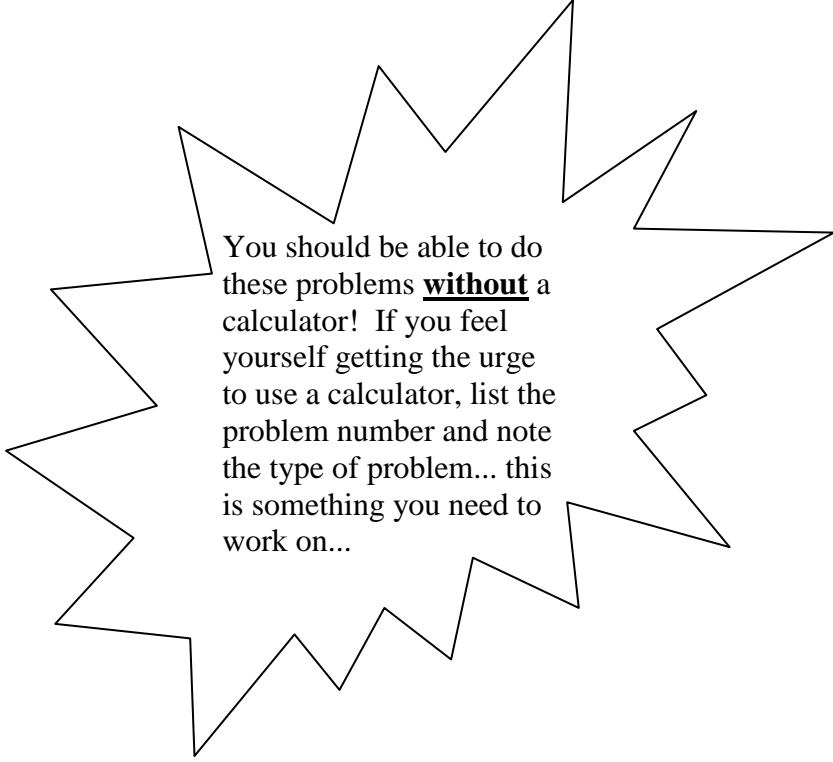
18. $\dfrac{5^2 - 3^3}{|4 - 4^2|}$

19. $\dfrac{3 \cdot 2^3 - 2^2 \cdot 12}{3 + 3^2}$

You should be able to do these problems **without** a calculator! If you feel yourself getting the urge to use a calculator, list the problem number and note the type of problem... this is something you need to work on...

Problems I needed a calculator for:_____