1. $\dfrac{4(3^2)-6(2)}{6+2^2}=\dfrac{4(9)-6(2)}{6+4}=\dfrac{36-12}{10}=\dfrac{24}{10}=\dfrac{12}{5}$ or $2\frac{2}{5}$

2. $\sqrt{\dfrac{8^2-3^2-5(6)}{2(5)+6}}=\sqrt{\dfrac{64-9-5(6)}{2(5)+6}}=\sqrt{\dfrac{64-9-30}{10+6}}=\sqrt{\dfrac{25}{16}}=\dfrac{5}{4}$

3. $5^2-[2(3)+1]=5^2-(6+1)=5^2-7=25-7=18$

4. $\dfrac{8+2(3^2-4^2)}{15-6(3+1)}=\dfrac{8+2(9-16)}{15-6(4)}=\dfrac{8+2(-7)}{15-24}=\dfrac{8-14}{-9}=\dfrac{-6}{-9}=\dfrac{2}{3}$

5. $\dfrac{3(20+4)}{2(9)-4^2}\cdot\sqrt[3]{\dfrac{5(8)+41}{12-3(16-13)}}=\dfrac{3(20+4)}{2(9)-16}\cdot\sqrt[3]{\dfrac{40+41}{12-3(3)}}$

$$=\frac{3(24)}{18-16}\sqrt[3]{\frac{40+41}{12-9}}=\frac{72}{2}\sqrt[3]{\frac{81}{3}}$$

$$=36\sqrt[3]{27}=36(3)=108$$