Simplify each radical and then combine.

$$x\sqrt[3]{8x^2y^2}+\sqrt[3]{27x^5y^2} = x\sqrt[3]{8}\sqrt[3]{x^2y^2}+\sqrt[3]{27}\sqrt[3]{x^3}\sqrt[3]{x^2y^2}$$

$$= 2x\sqrt[3]{x^2y^2}+3x\sqrt[3]{x^2y^2} = (2x+3x)\sqrt[3]{x^2y^2} = 5x\sqrt[3]{x^2y^2}$$