Multiplying and Dividing Radicals Quiz /16

Show all your work in a clear, easy to follow manner, for full marks. All answers must be written in simplest form.

1. Simplify. {16 marks}

a) $\sqrt{6}∙\sqrt{8}$ b) $\left(-5\sqrt{2}\right)^{2}$

c) $\left(-2\sqrt[3]{4x^{2}}\right)\left(-4\sqrt[3]{6x^{2}}\right)$ d) $\left(4+\sqrt{3}\right)\left(4+\sqrt{3}\right)$

e) $\frac{7}{\sqrt{5}}$ f) $\frac{3+\sqrt{2}}{\sqrt{2}}$

g) $\frac{4}{\sqrt{x-3}}$ h) $\frac{\sqrt{5}}{3-\sqrt{2}}$