SPH3U0 **Applying the Weakest Link Rules** LASS2011

ANSWERS

1. Perform the following calculations. Keep the correct number of significant digits in your answer. Use scientific notation if necessary.

a) 15 m x 127 m = 1900 m^2 1.9×10^3 m^2

b) 3.46 cm + 10 cm + 6.70 cm + 9.4 cm = 30.0 cm. 3.0×10^1 cm.

c) 9.5 cm x 21.65 cm x 35 cm = 7200 7.2×10^3 cm^3

d) 2.6 kg + 18 kg + 5.375 kg = 26 kg

2. Perform the following calculations. Keep the correct number of significant digits in your answer. Use scientific notation if necessary.

a) 22 m x 127 m = 2800 m^2.

b) 3.46 cm + 12 cm + 6.70 cm + 9.4 cm = 32 cm.

c) 9.5 cm x 21.65 cm x 35 cm = 7200 cm^3.

d) 2.6 kg + 18 kg + 5.375 kg = 26 kg

e) 15.5 cm - 8.215 cm + 2.35 cm= 9.6 cm

f) $127.5\ km \div 0.64\ h =$ 200 km/h → 2.0×10^2 km/h

g) (0.0060 m)(10.2m)(1.54m) = 0.094 m^3.

h) 0.055 g -0.0050 g = 0.050 g

i) $(6.5\ cm)^2$= 42 cm^2.