

MEASUREMENTS AND CALCULATIONS

ANSWERS:

HOMEWORK QUESTIONS:

3. Carry out the following mathematical operations and give each result to the correct number of significant figures:

a). $5.18 \times 0.0208 =$

Calculator answer: 0.107744

Correct Answer: 0.108 ; 3 sig figs in the answer.

b). $116.8 - 0.33 =$

Calculator answer: 116.47

Correct Answer: 116.5 ; 1 decimal place in answer.

c). $21 + 13.8 + 130.36 =$

Calculator answer: 165.16

Correct Answer: 165 ; NO decimal places in answer.

d). $(3.60 \times 10^{-5}) \times (8.125) / 4.3 =$

Calculator answer: 0.000068023

Correct Answer: 0.000068 ; or 6.8×10^{-5}

2 sig figs in the answer.

e). the total cost of 2 boxes of candy at \$2.75 a box =

Calculator answer: \$ 5.50

Correct Answer: \$ 5.50 ; exact numbers are not sig