

# Quiz 4 - Measurements in Chemistry

\* Indicates required question

1. Email \*

---

2. Which of the following contains the correct units for the problem below:

2 pc

$48.2\text{m}^2 \times 3.40\text{m}$  → multiply

Mark only one oval.

$\text{m}^2 \times \text{m}^1$   
 $(2 + 1 = 3)$

☐ Units: m

☐ Units:  $\text{m}^2$

☒ Unit:  $\text{m}^3$

☐ Unit:  $\text{m}^4$

3. Which of the following contains the correct units for the problem below:

2 pc

$294.38\text{m} / 4.52\text{s}^2$

top bottom  
Mark only one oval.

Divide

$\frac{\text{m}}{\text{s}^2}$

☐ Units: 1 (cancels out)

☐ Units: m/s

☒ Unit:  $\text{m/s}^2$

☐ Unit:  $\text{m}^2/\text{s}^2$

4. Which of the following contains the correct units for the problem below:

$$4.29\text{m} / 2.4\text{m}$$

top = bottom Divide

Mark only one oval.

☒ Units: 1 (cancels out)

☐ Units: m<sup>2</sup>

☐ Unit: m/m

☐ Unit: m<sup>2</sup>/m

$$\frac{\cancel{\text{m}}}{\cancel{\text{m}}} = 1$$

same units = 1

$$\left| \frac{\text{m}^2}{\text{m}^1} = (2-1=1) \right| \frac{\text{m}^1}{1} = \text{m}$$

(example)

5. Which of the following contains the answer to the measurement rounded to the correct value. \* 2 pc

$$35.22\text{m} + 2.9\text{m}$$

2 after 1 after  
Mark only one oval.

+ or - = smallest #  
past decimal  
= 1 after

☐ 40m

☐ 38m

☒ 38.1m

☐ 38.12m

6. Which of the following contains the answer to the measurement rounded to the correct value. \* 2 pc

$$4.182\text{g} \times 9.28\text{g}$$

Mark only one oval.

☐ 38g<sup>2</sup>

☐ 38.8g<sup>2</sup>

☒ 38.81g<sup>2</sup>

☐ 38.808g<sup>2</sup>

mult or div.  
round to 2 or less after dec.  
38.808g<sup>2</sup> → 38.81g<sup>2</sup>  
2 after