

1. Add the following numbers

$$x = (3.52 \pm 0.01) \text{ m}$$

$$y = (2.89 \pm 0.03) \text{ m.}$$

2. What is the result of the operation $z = x - y + w$, where

$$x = (1.6 \pm 0.2) \text{ m/s}$$

$$y = (3.44 \pm 0.21) \text{ m/s}$$

$$w = (18.03 \pm 0.01) \text{ m/s ?}$$

3. What is the result of $R = R_1 - R_2 - R_3$, where

$$R_1 = (6.4 \pm 0.1) \text{ N}$$

$$R_2 = (8.2 \pm 0.2) \text{ N}$$

$$R_3 = (9.1 \pm 0.5) \text{ N ?}$$

4. Compute the appropriate value of Q given

$$Q = X_1 + X_2 + X_3 - Y$$

where

$$X_1 = (1.207 \pm 0.001) \text{ mm}$$

$$X_2 = (1.863 \pm 0.028) \text{ mm}$$

$$X_3 = (2.888 \pm 0.111) \text{ mm}$$

$$Y = (4.36 \pm 0.04) \text{ mm.}$$

5. What is the result of $z = xy$, given

$$x = (10.0 \pm 0.2) \text{ m}$$

$$y = (8.63 \pm 0.18) \text{ m ?}$$

6. Compute $A = LW$ if

$$L = (9.01 \pm 0.21) \text{ cm}$$

$$W = (6.4 \pm 0.1) \text{ cm.}$$

7. What is the result of $z = x/y$ if

$$x = (2.81 \pm 0.33) \text{ m}$$

$$y = (7.34 \pm 0.05) \text{ s ?}$$

8. Calculate $V = LWH$, given

$$L = (181.52 \pm 0.19) \text{ mm}$$

$$W = (60.80 \pm 0.05) \text{ mm}$$

$$H = (3.00 \pm 0.03) \text{ mm.}$$