1. Measure the length and width of the rectangle below using a regular ruler. Give both the absolute and relative uncertainty.

2.59 cm ± 0.05 cm

Relative = 0.05 cm x 100

2.59

= 1.93 %

2.59 cm ± 1.93 %

5.95 cm ± 0.05 cm

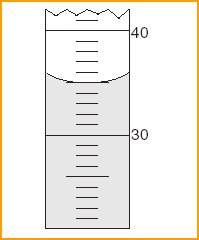
Relative = 0.05 cm x 100

5.95

= 0.840 %

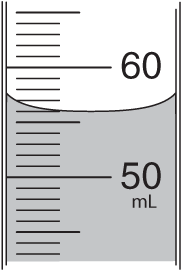
5.95 cm ± 0.84%

1. Read the volume of the liquid in the graduated cylinder. The volume is in milliliters.



35.0 mL ± 0.5 mL

The uncertainty and the measurement must have the same number of decimal places.

1. Indicate the volume of the liquid in the graduated cylinder. Include the absolute and relative uncertainty.

Absolute = 56.0 mL ± .05 mL

Relative = 0.5 mL x 100

56.0 mL

= 0.893%

56.0 mL ± 0.893%