


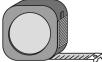



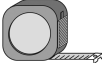


Name: _____ () Class: _____ Date: _____

Lesson Worksheet 6.2(II)

Objective: To choose an appropriate unit and degree of accuracy for a measurement.

1. Choose an appropriate measuring tool for each of the following measurements.

	Measurement	Measuring tool
(a)	The weight of a child	<input type="checkbox"/> Bathroom scale  <input type="checkbox"/> Mechanical scale 
(b)	The length of a cupboard	<input type="checkbox"/> Ruler  <input type="checkbox"/> Measuring tape 
(c)	The weight of a pack of fruit	<input type="checkbox"/> Bathroom scale  <input type="checkbox"/> Mechanical scale 
(d)	The width of a bedroom	<input type="checkbox"/> Ruler  <input type="checkbox"/> Measuring tape 

2. For each of the following measurements, determine whether it is given in an appropriate degree of accuracy. If it is *not* appropriate, suggest an appropriate degree of accuracy.

(More than one degree of accuracy can be chosen.)

	Measurement	Degree of Accuracy	Suggestion (if any)
(a)	The total opening time of a theme park last year was 3600 hours, correct to the nearest 100 hours.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to 1 sig. fig.
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to 3 sig. fig. <input type="checkbox"/> correct to the nearest hour
(b)	The monthly average rainfall in Hong Kong was 200 mm last year, correct to the nearest 100 mm.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 mm
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest mm <input type="checkbox"/> correct to the nearest 0.1 mm
(c)	The perimeter of a playground is 530 m, correct to the nearest 10 m.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to 1 sig. fig.
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest 10 cm <input type="checkbox"/> correct to the nearest cm
(d)	The length of a parcel is 31.24 cm, correct to the nearest 0.01 cm.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest cm
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest 0.1 cm <input type="checkbox"/> correct to the nearest mm
(e)	The weight of a mobile phone is 200 g, correct to the nearest 100 g.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 g
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest g <input type="checkbox"/> correct to the nearest 0.1 g
(f)	The thickness of a book is 23.7 mm, correct to the nearest 0.1 mm.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 mm
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest mm <input type="checkbox"/> correct to the nearest cm
(g)	After improving the quality of soil, the average weight of strawberries grown increases by 2.0 g, correct to the nearest 0.1 g.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 g
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest g <input type="checkbox"/> correct to the nearest 0.1 g

3. For each of the following measurements, determine whether it is given in an appropriate degree of accuracy. If it is *not* appropriate, suggest an appropriate degree of accuracy.

(More than one degree of accuracy can be chosen.)

	Measurement	Degree of Accuracy	Suggestion (if any)
(a)	The floor area of an exhibition room is 200 m^2 , correct to the nearest 100 m^2 .	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 m^2
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest m^2 <input type="checkbox"/> correct to the nearest 0.1 m^2
(b)	The Olympiad high jump record is 2.39 m , correct to the nearest 0.01 m .	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 m
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest m <input type="checkbox"/> correct to the nearest 0.1 m
(c)	The height of victoria peak is 550 m , correct to the nearest 10 m .	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest m
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest 0.1 m <input type="checkbox"/> correct to the nearest 0.01 m
(d)	The waiting time for serving food in a restaurant is 18 minutes , correct to the nearest minute.	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest second
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest 0.1 min <input type="checkbox"/> correct to the nearest 10 min
(e)	The average depth of victoria harbour is 12 m , correct to the nearest m .	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 0.1 m
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest cm <input type="checkbox"/> correct to the nearest 10 cm
(f)	In a supermarket, the weight of an apple is marked 35.32 g , correct to the nearest 0.01 g .	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 g
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest g <input type="checkbox"/> correct to the nearest 0.1 g
(g)	The duration of a movie is 124.2 minutes , correct to the nearest 0.1 min .	<input type="checkbox"/> appropriate	<input type="checkbox"/> correct to the nearest 10 min
		<input type="checkbox"/> should be more accurate <input type="checkbox"/> too accurate	<input type="checkbox"/> correct to the nearest min <input type="checkbox"/> correct to the nearest second