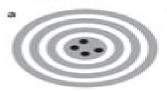
# **Answers to SAQs**

# Chapter P1

- Probably 50 Ω, 100 Ω, 200 Ω, 300 Ω, 400 Ω, 500 Ω. They cover the whole range with roughly equal differences.
- 2



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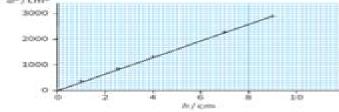


- 3 Left-hand diagram indicates systematic error. Right-hand diagram indicates random error.
- 4 Pointer does not indicate zero when load = 0; scale incorrectly calibrated.
- 5 I mm at either end = ±2 mm; but if several measurements are required end-to-end and the tape measure is not long enough, this will increase the uncertainty. This assumes the tape measure is drawn tightly but does not stretch in length.
- 6 ±0.5 °C or ±1.0 °C
- 7 Between ±0.2 cm and ±1 cm.
- 8 Between ±0.2 s and ±0.5 s.
- 9 a Average = (20.6 + 20.8)/2 = 20.7 ± 0.1
  - b Average = (20+30+36)/3 = 29 ±8
  - c Average =  $(0.6 + 1.0 + 0.8 + 1.2)/4 = 0.9 \pm 0.3$
  - **d** Average =  $(20.5 + 20.5)/2 \approx 20.5 \pm 0.1$
- 10 ±0.8%
- 11 a ±5.7% or 6%
  - The pendulum is moving during measurement.
- 12 ±0.25 V

1.3

h/cm	d / cm	d'/cm'
1.0	18.0	324
2.5	28.4	807
4.0	3/5/-8	1280
5.5	41.6	1730
7.0	47.3	2240
9.0	53.6	2870

14 a #/cm²



- b Gradient = 320 cm; y-intercept = 0 cm<sup>2</sup> approx.
- 15 If T is proportional to m, then T = km.

Two values of k are  $\frac{4.6}{0.9}$  = 5.1 and  $\frac{6.3}{1.2}$  = 5.25. The % difference in the k values is

0.15 × 100 = 2.9%.

The percentage difference in the T value is  $\frac{0.2 \times 100}{4.6} = 4.3\%$ .

The criterion is that the % difference in the k values should be less than the % difference in the raw data for proportionality to be shown. This has been shown, so the data is consistent with a proportional relationship.

16 Two values of  $k = \frac{k^2}{4}$  are 3.41 and 3.0.

They differ by about 14%. The percentage uncertainty in r is 3%. Since the % uncertainty in the k values is larger than the % uncertainty in the readings, the data is not consistent with a proportional relationship.

# **Physics Assessment Answers Key**

**Roman Wölfel** 

#### **Physics Assessment Answers Key:**

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web the whale shark is the largest fish in the world and the largest fish known to have lived on this planet because of its size and cartilaginous skeleton it does not fossilize well and in life it is very difficult to weigh accurately the largest accurately measured whale shark was 61 7 feet 18 8 m

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web whale shark scientific name rhincodon typus type fish diet carnivore group name school average life span in the wild 70 years size 18 to 32 8 feet weight 20 6 tons size relative to a bus

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web she found that the whale sharks in offshore habitats travelled more and occupied deeper waters than those within the bay it appears that the younger male whale sharks are more opportunistic and for many the ready supply of food at the bagan platforms in cenderawasih bay was reason enough to stay

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web a whale shark the size of a school bus swims slowly near the surface of the ocean its wide mouth is open like an enormous net scooping up whatever happens to be around mostly small fish fish

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web whale sharks are highly migratory and it is thought that their movement is associated both with abundance of food in the area as well as breeding behaviors scientists are still researching the life cycle of whale sharks but it is believed that male whale sharks begin maturing around 17 years old and females around 19 22 years old

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web the whale shark rhincodon typus is a slow moving filter feeding carpet shark and the largest known extant fish species the largest confirmed individual had a length of 18 8 m 61 7 ft the whale shark holds many records for size in the animal kingdom most notably being by far the largest living nonmammalian vertebrate

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