

Numeracy Skills for Science

Reading Tables Level 3 Book 1 Answers

Question 21 - Water Types - level 3 Book 1

Soft water and detergent was the most successful with 90 % of stain removed.

Hard water and detergent was the least successful with 62 % of stain removed.

Question 23 - % Blood Group - level 3 Book 1

Number of students with blood group O 11

Total number of students 20

(The number you have been asked about (**11**) \div the total number (**20**) \times **100**)

$11 \div 20 \times 100 = \underline{\mathbf{55\%}}$

Question 25 - Average Heart Rate - level 3 Book 1

Total number of beats in 20s were $21 + 21 + 24 = 66$

(There were 3 measurements)

Average = $66 \div 3 = \underline{\mathbf{22 \text{ beats}}}$

Reading Tables Level 3 Book 2 Answers

Question 1 - Starlings - level 3 Book 2

The number of starlings when the area of rough grass farmland was 850 000 hectares was more than 3.2 millions but less than 3.4 millions.

Question 4 - Energy and Buildings - level 3 Book 2

- a) **total** energy used in the months when the average outdoor temperature was **less than 15°C**

$$700 \text{ kWh} + 850 \text{ kWh} + 1000 \text{ kWh} = \underline{2550 \text{ kWh}}$$

- b) As the average outdoor temperature falls, the energy used increases.

- c) 600 kWh

Question 11 - Fuels - level 3 Book 2

- a) As the number of carbon atoms increases, the energy released increases.

- b) Ethane.

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Reading Tables Level 4 Book 1 Answers

Question 8 - Toads and Insects - level 4 Book 1

- a) Robber Fly
- b) Black Fly
- c) Robber Fly
- d) Since the toad had eaten 4 insects before encountering the robber fly for a second time its appetite had decreased.

Question 9 - Ammonia and Fertilisers - level 4 Book 1

- a) 1.As the temperature falls the rate of ammonia production increases.
2.When the temperature falls and the pressure is increased the rate of ammonia production is further increased.
- b) 200 kg/min

Question 12 - Wire Resistance - level 4 Book 1

- a) 1.As the wire thickness increases the electrical resistance falls.
2.Nichrome wire has a lower electrical resistance compared with constantan wire.
- b) constantan

Reading Tables Level 4 Book 2 Answers

Question 1 - Vaccines - level 4 Book 2

- 1. Rabies
- 2. Hepatitis A
- 3. Tetanus
- 4. Meningitis
Time vaccine is effective : 5 years
Booster vaccine is required within effective period.
Vaccine is injected.

Question 4 - Fibre Strength - level 4 Book 2

- 1. Synthetic fibres are stronger than natural fibres.
- 2. Natural.

Question 10 - Fuel Octane - level 4 Book 2

- 1. As the number of carbon atoms increases the alkene octane number falls..
- 2. Alkene octane number of 90.
- 3. Decreases.