

Question 1

- 01.1 organ
- 01.2 (Lines drawn correctly)
- 01.3 transpiration
- 01.4 lignin
- 01.5 So light can get in.
- 01.6 stomata, guard cells
- 01.7 vacuole
- 01.8 active transport
- 01.9 mitochondria

Question 2

- 02.1 Its a barrier.
- 02.2 3/10
- 02.3 156
- 02.4 He worked out the middle number between 23 and 63.

Question 3

- 03.1 (Lines drawn correctly)
- 03.2 1968
- 03.3 It went up, stayed the same for a bit, then went down.
- 03.4 It went down.
- 03.5 (Parents were worried their children would get condition X - box ticked)
- 03.6 (Have the research peer reviewed - box ticked)
- 03.7 He was biased.

Question 4

- 04.1 You use iodine for starch. You use benedicts for sugar.
- 04.2 amylase, sugar
- 04.3 (The type of bread - box ticked)
- 04.4 White bread is fastest. Wholemeal bread is slowest.
- 04.5 He repeated it and calculated a mean.
- 04.6 58
- 04.7 (Each person's sense of taste is different - box ticked)

Question 5

- 05.1 (Ionising radiation, Viruses - boxes ticked)
- 05.2 (Mitosis - box ticked)
- 05.3 grow, replicate
- 05.4 (40% - box ticked)
- 05.5 (Chromosomes are pulled to each end of the cell - box ticked)
- 05.6 cell membrane
- 05.7 62.5um

05.8 cells, people

05.9 placebo

Question 6

06.1 Same potato size. Left for 20 mins.

06.2 Dry it.

06.3 Balance.

06.4 (0.1 g - box ticked)

06.5 (D - box ticked)

06.6 18.3%

06.7 (Line graph - box ticked)

06.8 water, osmosis, membrane

06.9 0.2 mol/dm³

Question 7

07.1 (Arteries - box ticked)

07.2 To pump the blood.

07.3 To give them oxygen.

07.4 statin

07.5 It opens the artery up.

07.6 Smoking increases the risk of all of them. Disease H is the most risky.

07.7 (Graph completed correctly)

07.8 Lack of exercise.

Question 8

08.1 nucleus

08.2 (A, D and E - box ticked)

08.3 They can't digest food. So they don't get nutrients to gain weight.

08.4 They are big. They are thin. They have blood.

08.5 You would have less energy.
