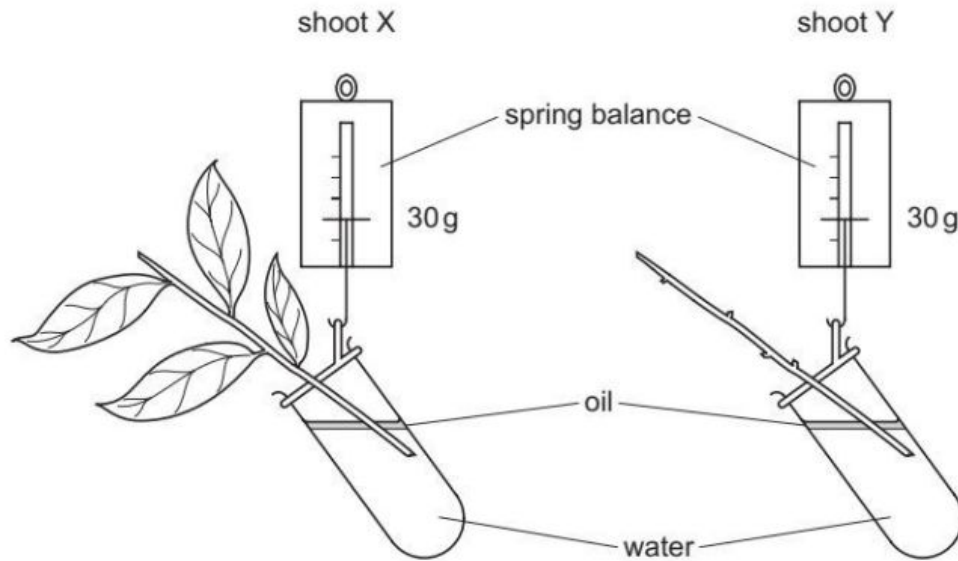


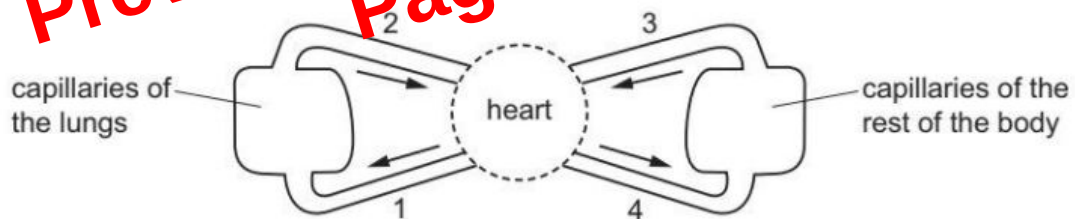
- 16 The diagram shows two shoots at the start of an experiment on transpiration.



What are the likely readings on the spring balances after three days?

	shoot X / g	shoot Y / g
A	25	25
B	25	30
C	30	25
D	30	30

- 17 The diagram shows a circulatory system.



Which vessels carry oxygenated blood?

- A 1 and 2 B 1 and 4 C 2 and 3 D 2 and 4

- 20 As we breathe out,1..... is2..... through the lungs.

Which words correctly complete gaps 1 and 2?

	1	2
A	carbon dioxide	excreted
B	carbon dioxide	respired
C	oxygen	excreted
D	oxygen	respired

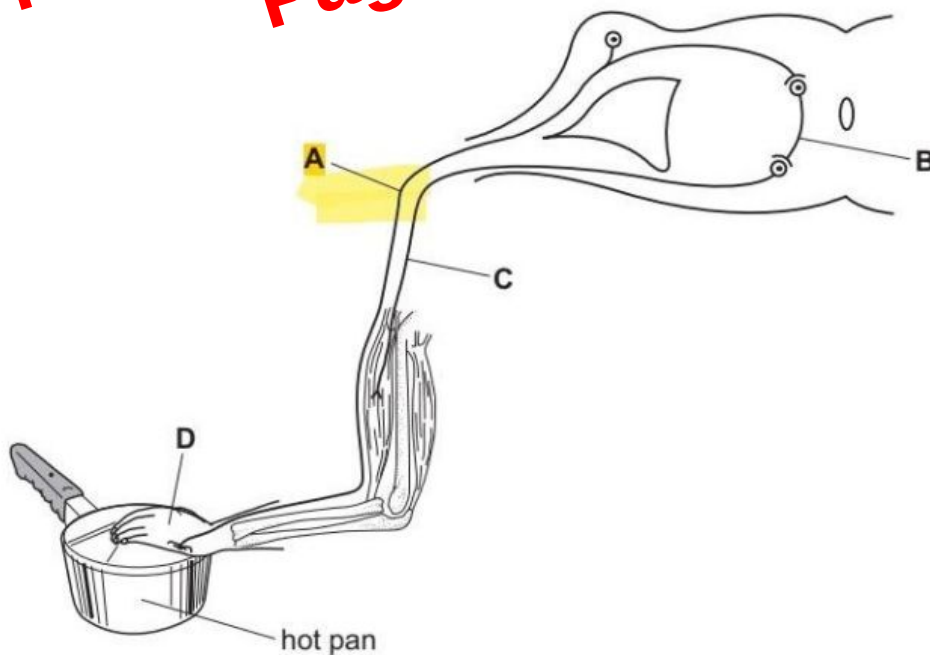
- 21 A person carries out vigorous exercise without drinking any water.

What would happen to the concentration and volume of the person's urine immediately after exercise?

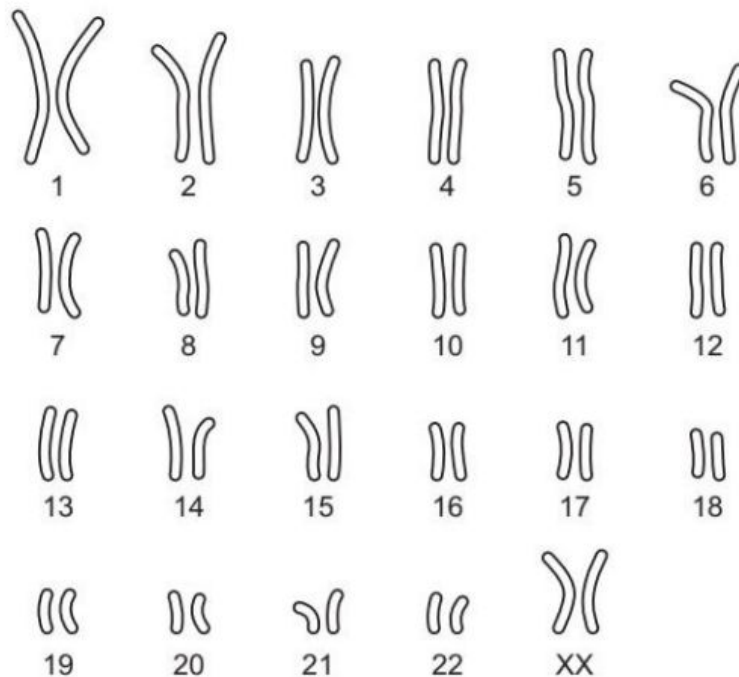
	urine concentration	urine volume
A	decrease	decrease
B	decrease	increase
C	increase	decrease
D	increase	increase

- 22 The diagram shows a reflex arc.

Which label points to the sensory neurone?



30 The diagram shows the chromosomes in one human cell.



What can be concluded from the chromosomes in this cell?

- A The cell is from a man.
- B The cell is from a woman.**
- C There are only 23 chromosomes per cell.
- D There are only 46 pairs of chromosomes per cell.

31 The allele for detached earlobes is dominant to the allele for attached earlobes.

Two parents are heterozygous for detached earlobes.

What is the probability of their first child having attached earlobes?

- A 0%
- B 25%**
- C 50%
- D 75%

32 Which is an example of discontinuous variation?

- A height
- B skin colour
- C tongue rolling**
- D weight