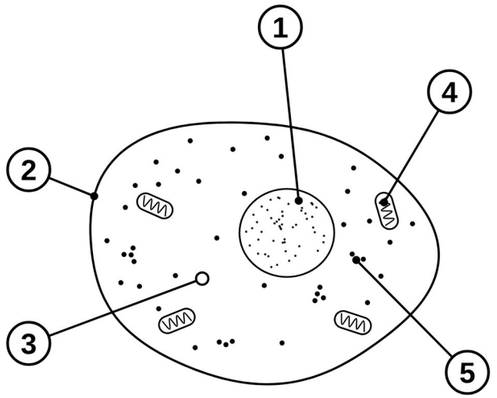
B1 L1 Mandatory worksheet: Animal and plant cells

Name: _____ Class: _____

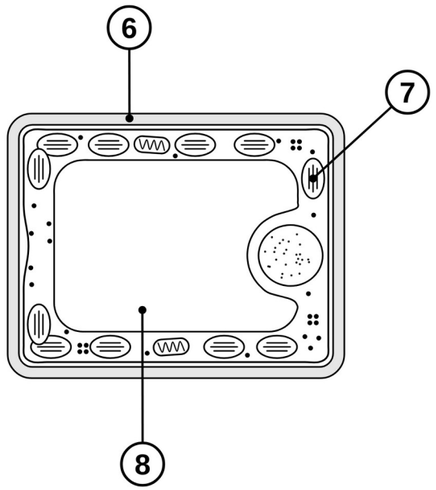
A. Label the cells

Help: online screens 3 and 6 [8]

The diagrams show an animal cell and a plant cell. Name the parts labelled 1 to 8.



animal cell



plant cell

1 _____ **5** _____

2 _____ **6** _____

3 _____ **7** _____

4 _____ **8** _____

B. Parts and their jobs

Help: online screens 3 and 6 [5]

Complete the table. Write the job of each part.

Part	Job
nucleus	
cell membrane	
mitochondria	
ribosomes	
chloroplasts	

C. Which cells have it?

Help: online screen 7 [6]

Tick (✓) the cells that have each part. Some parts are in both cells.

Part	Animal cell	Plant cell
1. nucleus		
2. cell wall		
3. mitochondria		
4. chloroplasts		
5. permanent vacuole		
6. cell membrane		

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D. Short answers

Help: online screens 1, 2, 6, 10 and 11 [7]

1. Animal and plant cells are eukaryotic cells. What does eukaryotic mean? [1]

_____

2. Name the green substance in chloroplasts that absorbs light. [1]

_____

3. What is cell sap? [1]

_____

4. Give one way a light micrograph of pondweed leaf cells is different from a diagram of a plant cell. [1]

_____

_____

5. Onion bulb cells have no chloroplasts. Suggest why. [1]

_____

_____

6. A student says, “Plant cells do not need mitochondria, because they have chloroplasts.” Is the student right? Give a reason for your answer. [2]

_____

_____

_____

E. Estimate

Help: online screen 9 [3]

Use: **number that fit = width of the cell ÷ width of the part**

(a) An animal cell is about 28 µm across. Its nucleus is about 7 µm across. Estimate how many nuclei would fit side by side across the cell. Show your working. [2]

_____ nuclei

(b) A mitochondrion is about 1 µm long. About how many mitochondria would fit end to end across the same cell? [1]

_____ mitochondria

F. A cheek cell and a pondweed leaf cell

[4]

(a) Give **two** parts that both cells have. [2] Help: online screens 6 and 7

1 _____

2 _____

(b) Give **two** parts that only the pondweed leaf cell has. [2]

1 _____

2 _____