

Class: Eight	Worksheet	: Cell Division	Science
1. Short answ	wer questions:		
What is the na of a cell?	ime of the thread	like structures found in th	ne nucleus
What are chro	mosomes and ge	nes made of?	
How many chr	omosomes do hu	ımans have in each body o	ell?
What is a spec	cie?		
organisms of t	given to the difthe same species word inherited n		s between
What is differe	e <mark>nce be</mark> tween par	ent and daughter cell?	
Pare	nt cell	Daughter cell	
What is the ro	le of chromosom	es in cell division?	

2.	Long	answer	questions:
	9		44001101101

	What is the importance of meiosis?					
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ii. What are the similarities and differences between mitosis and meiosis?

Mitosis	Similarities	Majasis		
MIIOSIS	Similarities	Meiosis		
$P \supset 0$				
	,			



Class: Eight	Worksheet : Cell Division	Science
iii. Explain the proces	s of mitosis.	
Prophase		
		1000
Metaphase		<del></del>
Anaphase		
Telophase		

Class: Eight **Worksheet : Cell Division** Science Explain the process of meiosis. iv. Meiosis is a two-step process: Meiosis I Prophase I Metaphase I Anaphase I Telophase I **Meiosis II** 



# 3. Tick the right option.

1. Which of the following is the control center of cell?								
I. Cell II. Nucleus III. Vacuole IV. Cytoplasm								
2. In this phase chromosomes condense and the nuclear envelope breaks down;								
I. Metaphase	II.	Anaphase	III.	Prophase	IV.	Telophase		
3. Before cell division chromosomes are in the form of threads called:								
I. Chromatin	II.	Tetrad	III.	Bivalent	IV.	Chiasmata		
4. In this phase the cell neither divides nor prepares itself for the division.								
I. G1 phase	II.	G2 phase	III.	S <mark>phase</mark>	IV.	G0 Phase		
5. The cell which divides is called;								
I. Parent cell	II.	Mother cell	III.	Daughter cell	IV.	Eukaryotic cell		

4.	Fill	ups

	Λ	is the smallest unit of life.
ı.	A _	IS the smallest unit of life.

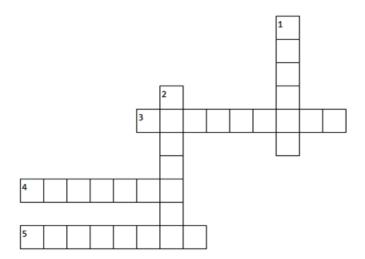
ii. is the longest phase of cell cycle.

iii. are structures in the nucleus of cells that contain DNA.

iv. Mitosis occurs in the \_\_\_\_\_ cells.

v. Meiosis occurs in the \_\_\_\_\_ cells.

### 4. Crosswords



Across	Down
5. Chromosomes align in center	Pair of homologous chromosomes
6. Same number of	2. Half number of chromosomes
chromosomes	
7. Chromosome separate	

### 5. Words Search

Find the following word in the words search.

S	С	A	Т	S	Α	L	Т	Υ
K	Υ	A	Ø	Е	Z	Е	Ø	Z
В	Т	Ш	Α	Т	Ι	I	Z	G
G	0	0	J	R	O	Е	Ш	Ш
Р	Р	Ν	K	Н	Ш	Α	Ш	-
0	L	-	J	Е	Ш	R	Α	R
V	Α	R	I	Α	Т	ı	0	Ν
Е	S	Р	I	N	D	L	Ш	Ø
С	М	В	Т	U	I	М	В	Т

#### 6. Jumbled Words

	i. (	CTIONDUPRORE		ii.	SOMEMOCHRO	
--	------	--------------	--	-----	------------	--

iii. GOTEZY iv. ETEGAM

v. NESISKICYTO \_\_\_\_\_ vi. TATIONADAP \_\_\_\_\_

vii. NESISKIKARYO \_\_\_\_\_\_ viii. TICALID<mark>EN</mark> \_\_\_\_\_

ix. GOUSLOHOMO \_\_\_\_\_ x. RENTPA

### 7. Columns

### Match the statements

Cytoplasm •

S phase

- G2 phase •
- Cytokinesis •
- Karyokinesis •

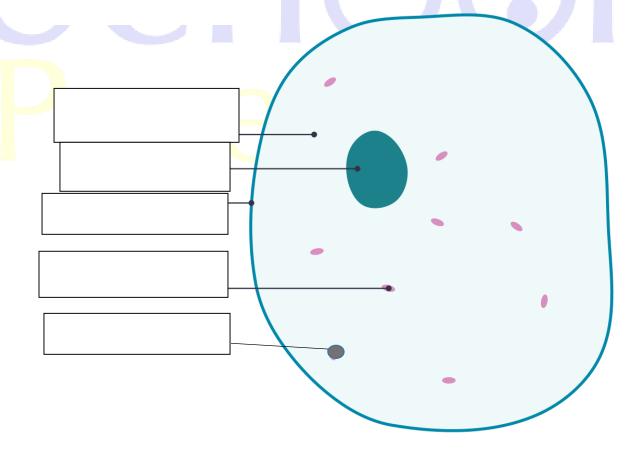
- Protein Synthesis
- Jelly like substance
- Division of nucleus
- DNA replication
- Division of cytoplasm

# 8. Write "T" for the true and "F" for the false statement.

- i. The cell membrane is a thin layer that surrounds an animal cell.
- ii. The nucleus is the control center of the cell.
- iii. The cells which are produced as a result of cell division are called daughter cells.
- iv. Humans have 23 pairs of chromosomes.
- v. Formation of spindle fibers take place during metaphase.

## 9. Label the diagram.

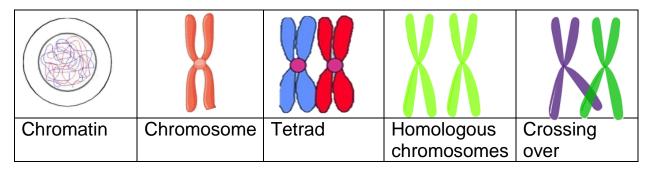
Structure of an animal cell





# 10. Drag and Drop

Look at the pictures and write their names in the relevant column.



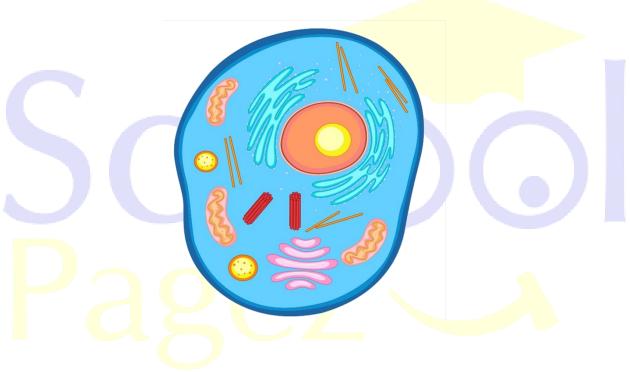
Structure/Stage	Appearance



### 11. Comprehension

# Answer the following questions after reading the paragraph and observe the picture carefully.

Cell division is a vital process in the life of a cell, ensuring growth and reproduction. There are two main types: mitosis and meiosis. Mitosis is like a cell's everyday job, creating two identical "worker" cells. It happens in our body cells, helping us grow and replace damaged tissues. On the other hand, meiosis is like a special task for making babies. It occurs in cells that become eggs or sperm, and the result is four unique cells with half the usual stuff. So, whether it's for everyday tasks or making new life, cell division plays a crucial role in keeping living things going.



What is the importance of cell division?
How many types of cell division are?

