- Reproduction: producing <u>new members</u> coming from a parent organism
- **Sexual reproduction:** the production of a new organism from a female sex cell and a male sex cell (Two parents) Ex: Mammals
- **Fertilization:** the process of <u>joining</u> a sperm cell from a male and an egg cell from a female into a single unit
- **Asexual reproduction**: the production of new organism from only one cell that genetically copies from the parent organism. (single parent)
- **Vegetative propagation**: <u>asexual</u> reproduction in plants that produces <u>new plants</u> from leaves, roots, or stems.
- **Runners**: are <u>plants stems</u> that lie on or under the ground and sprout up as new plants. Ex: strawberry, aspen trees, and most grasses.
- Pollination: the transfer of a pollen grain to the egg production part of a plant.
- **Metamorphosis**: a <u>series of distinct growth stages</u> that are different from one another.
- **Heredity:** the passing down of <u>inherited traits</u> from one generation to the next.

• Sexual and asexual reproduction comparison

	Sexual	Asexual
Parent	Two parents	One parent
Genetics	Offspring are genetically variation	Offspring are genetically identical to parent
Process	PollinationFertilization	 Splitting Budding Vegetative propagation (runners)
Example	• Mammals	 Bacteria Unicellular Protists Fungi Plants Animals such as jelly fish Lizards, frogs and insects

Choose the correct definition:

• Reproduction:

- the production of a new organism from a female sex cell and a male sex cell (Two parents) Ex: Mammals
- the process of joining a sperm cell from a male and an egg cell from a female into a single unit
- the production of new organism from only one cell that genetically copies from the parent organism. (single parent)
- producing <u>new members</u> coming from a parent organism

• Vegetative propagation:

- are <u>plants stems</u> that lie on or under the ground and sprout up as new plants. <u>Ex:</u> <u>strawberry, aspen trees, and most grasses</u>
- the transfer of a pollen grain to the egg production part of a plant
- a series of distinct growth stages that are different from one another.
- asexual reproduction in plants that produces new plants from leaves, roots, or stems.

• Fertilization:

- the production of a new organism from a female sex cell and a male sex cell (Two parents) Ex: Mammals
- the process of <u>joining</u> a sperm cell from a male and an egg cell from a female into a single unit
- the production of new organism from only one cell that genetically copies from the parent organism. (single parent)
- producing <u>new members</u> coming from a parent organism

• Asexual reproduction:

- the production of a new organism from a female sex cell and a male sex cell (Two parents) Ex: Mammals
- the process of joining a sperm cell from a male and an egg cell from a female into a single unit
- the production of new organism from only one cell that genetically copies from the parent organism. (single parent)
- producing <u>new members</u> coming from a parent organism

• Metamorphosis:

- the transfer of a pollen grain to the egg production part of a plant
- a series of distinct growth stages that are different from one another.
- the passing down of inherited traits from one generation to the net
- <u>asexual</u> reproduction in plants that produces <u>new plants</u> from leaves, roots, or stems.

• Heredity:

- are <u>plants stems</u> that lie on or under the ground and sprout up as new plants. <u>Ex:</u> strawberry, aspen trees, and most grasses
- the passing down of inherited traits from one generation to the net
- a <u>series of distinct growth stages</u> that are different from one another.
- <u>asexual</u> reproduction in plants that produces <u>new plants</u> from leaves, roots, or stems.

• Sexual reproduction:

- the production of a new organism from a female sex cell and a male sex cell (<u>Two parents</u>) Ex: <u>Mammals</u>
- the process of joining a sperm cell from a male and an egg cell from a female into a single unit
- the production of new organism from only one cell that genetically copies from the parent organism. (single parent)
- producing new members coming from a parent organism

• Runners:

- the passing down of inherited traits from one generation to the net
- the transfer of a pollen grain to the egg production part of a plant
- are <u>plants stems</u> that lie on or under the ground and sprout up as new plants. <u>Ex:</u> <u>strawberry, aspen trees, and most grasses</u>
- <u>asexual</u> reproduction in plants that produces <u>new plants</u> from leaves, roots, or stems.

• Pollination:

- a <u>series of distinct growth stages</u> that are different from one another.
- are <u>plants stems</u> that lie on or under the ground and sprout up as new plants. <u>Ex:</u> strawberry, aspen trees, and most grasses
- the passing down of inherited traits from one generation to the net
- the transfer of a pollen grain to the egg production part of a plant

Please fill the table with the require information

	Sexual	Asexual
Parent		
Genetics		
Process		
Example		

Classify the following organism based on the way of reproduction

- Lizards
- frogs
- insects
- Lion
- Bacteria
- Cats
- Unicellular Protists
- Fungi
- Plants
- Goats
- cows
- jelly fish

Sexual	Asexual

Choose the correct answer:

- the producing new members coming from a parent organism is:
 - Fertilization
 - Reproduction
 - Sexual reproduction
 - Asexual reproduction:
- the production of a new organism from a female sex cell and a male sex cell (Two parents)
 - Sexual reproduction
 - Fertilization
 - Reproduction
 - Pollination

•

- the process of joining a sperm cell from a male and an egg cell from a female into a single unit
 - Heredity
 - Fertilization
 - Reproduction
 - Asexual reproduction
- the production of new organism from only one cell that genetically copies from the parent organism. (single parent)
 - Sexual reproduction
 - Fertilization
 - Metamorphosis:
 - Asexual reproduction
- asexual reproduction in plants that produces new plants from leaves, roots, or stems.
 - Metamorphosis
 - Vegetative propagation
 - Pollination
 - Runners

- are plants stems that lie on or under the ground and sprout up as new plants. Ex: strawberry, aspen trees, and most grasses.
 - Vegetative propagation
 - Metamorphosis
 - Pollination
 - Runners
- the transfer of a pollen grain to the egg production part of a plant.
 - Metamorphosis
 - Pollination
 - Runners
 - Fertilization
- a series of distinct growth stages that are different from one another.
 - Pollination:
 - Metamorphosis
 - Heredity
 - Vegetative propagation
- the passing down of inherited traits from one generation to the net.
 - Heredity
 - Vegetative propagation
 - Metamorphosis
 - Pollination:
- Mammals are reproducing by:
 - pollination
 - Reproduction
 - Sexual reproduction
 - Asexual reproduction
- Sexual reproduction come from:
 - One cell
 - One parent
 - Two parents
 - Single cell

• Asexual reproduction come from:

- pollination
- fertilization
- Two parents
- Single cell

• strawberry, aspen trees, and most grasses are reproducing by:

- Vegetative propagation
- Metamorphosis
- Pollination
- Runners

• An example of asexual reproduction is

- pollination
- fertilization
- splitting

• Bacteria are reproducing by:

- Vegetative propagation
- pollination
- fertilization
- splitting

• fungi are reproducing by

- Pudding
- pollination
- fertilization
- splitting

• Runners are

- Pollination:
- Metamorphosis
- Heredity
- Vegetative propagation