

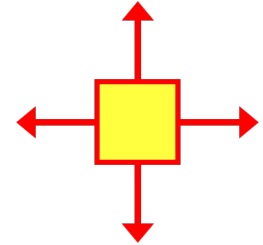
## Force and Motion

### Activity 1: Dot Diagram Matching

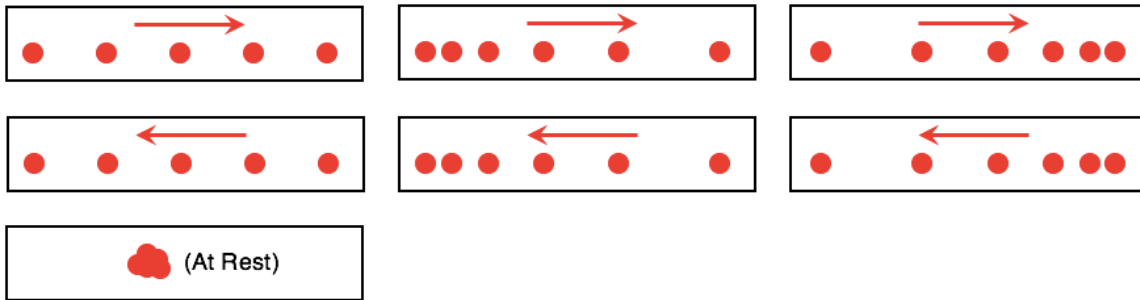
#### Question Group 1

##### Question 1

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

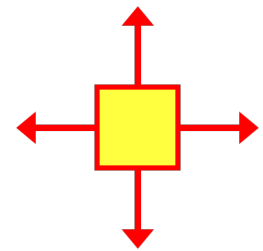


Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.

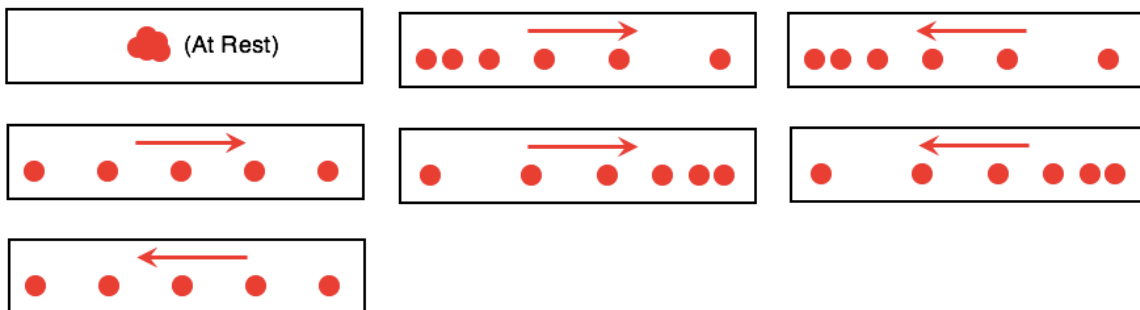


##### Question 2

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

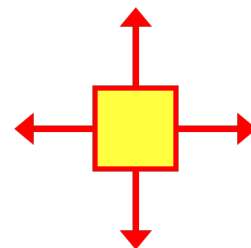


Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.

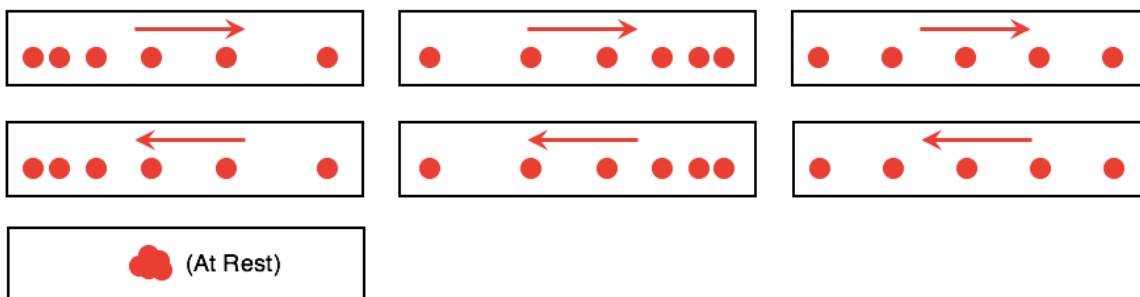


### Question 3

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.



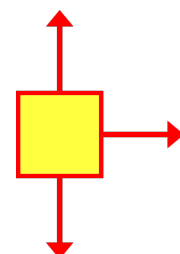
Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.



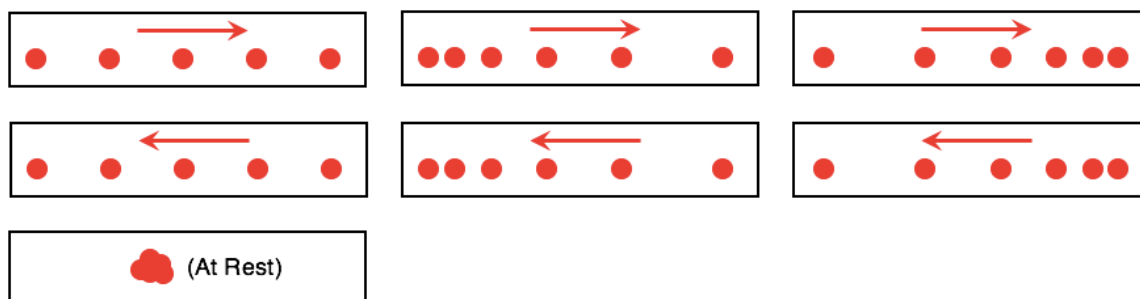
### Question Group 2

#### Question 4

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

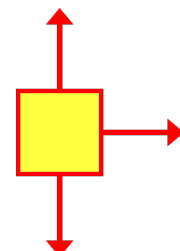


Which dot diagram represents a possible state of motion for such an object? Select all that apply.

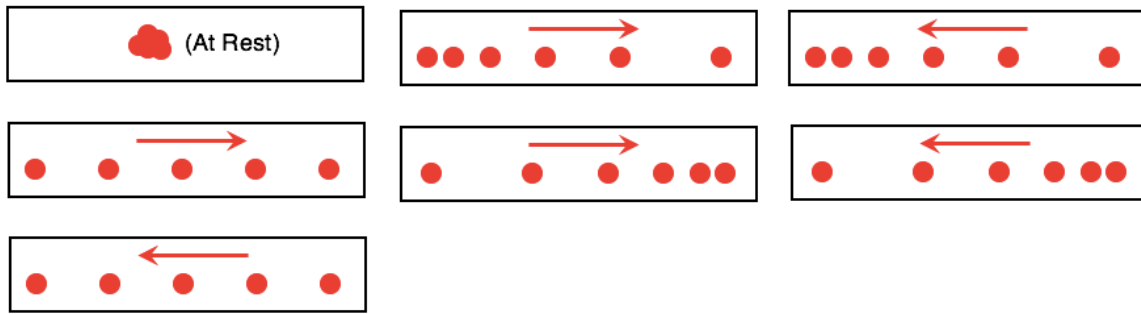


#### Question 5

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.



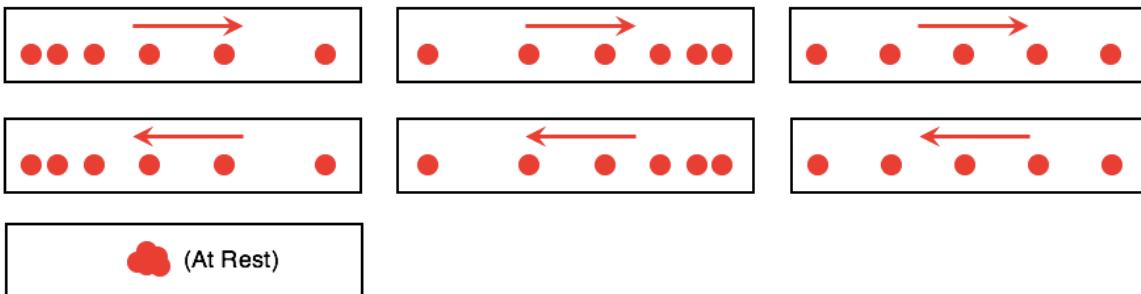
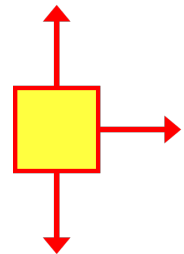
Which dot diagram represents a possible state of motion for such an object? Select all that apply.



### Question 6

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

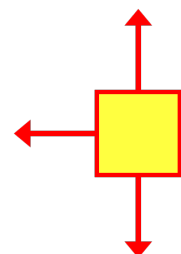


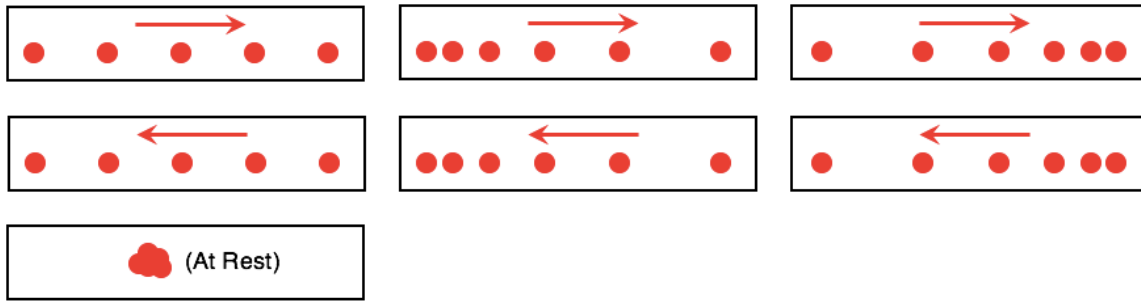
### Question Group 3

#### Question 7

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

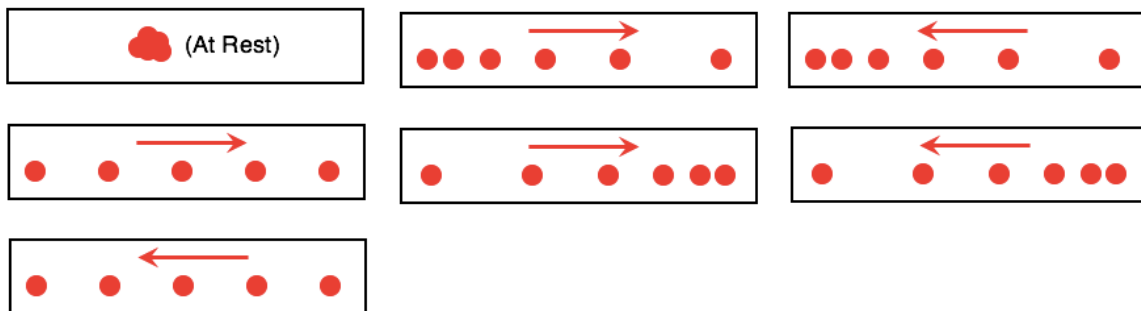
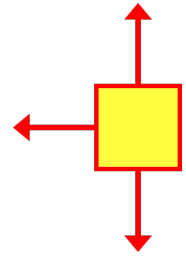




### Question 8

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

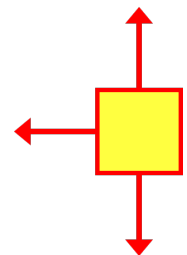
Which dot diagram represents a possible state of motion for such an object? Select all that apply.

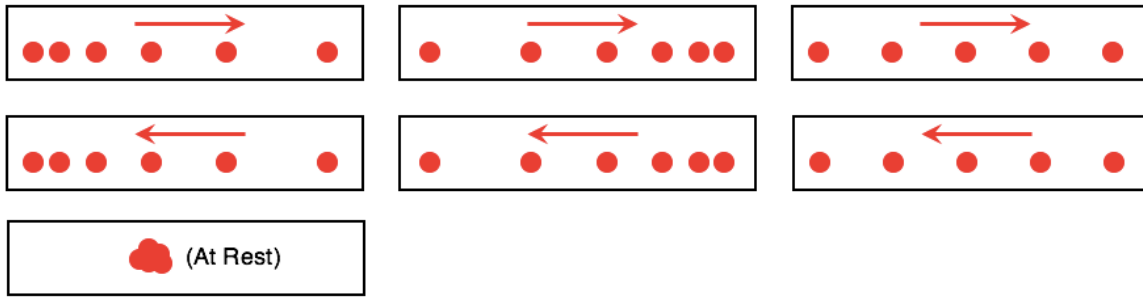


### Question 9

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.



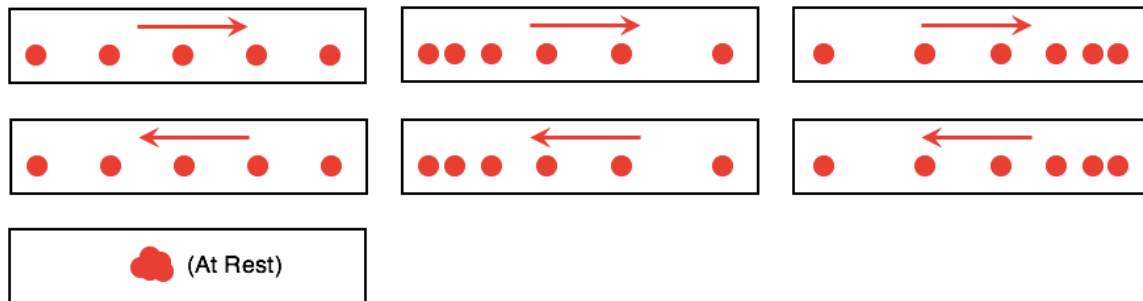
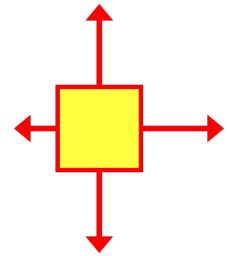


#### Question Group 4

##### Question 10

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

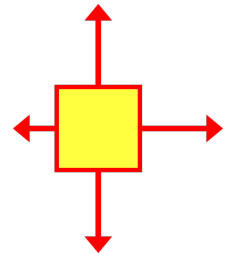
Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.

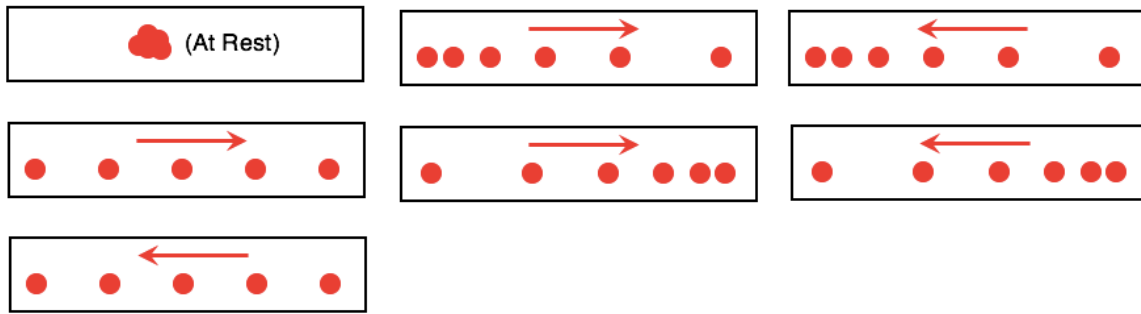


##### Question 11

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.

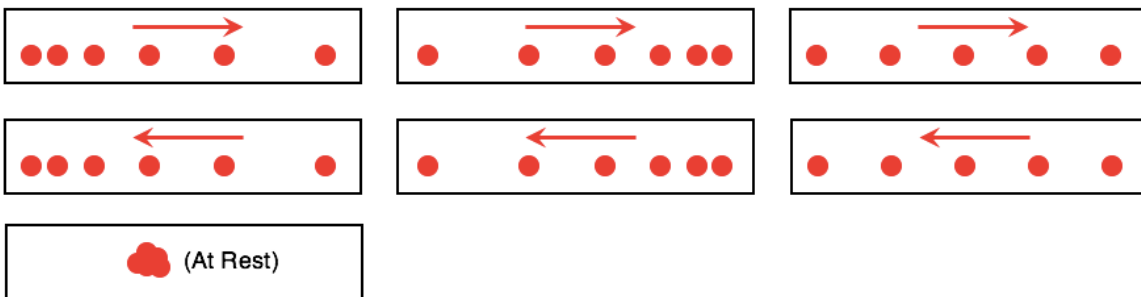
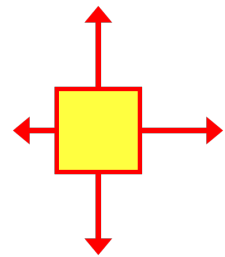




### Question 12

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.

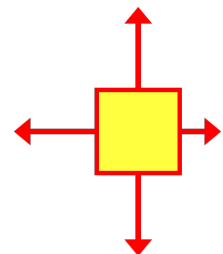


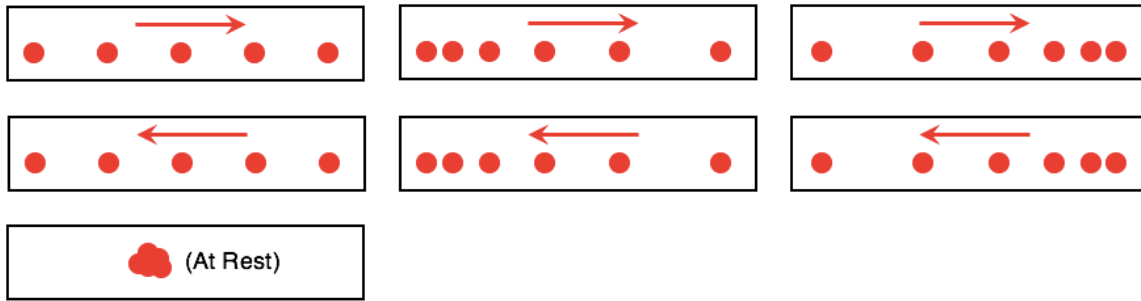
### Question Group 5

#### Question 13

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

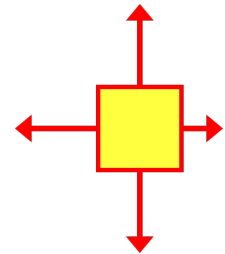
Which dot diagram represents a possible state of motion for such an object? Select all that apply.



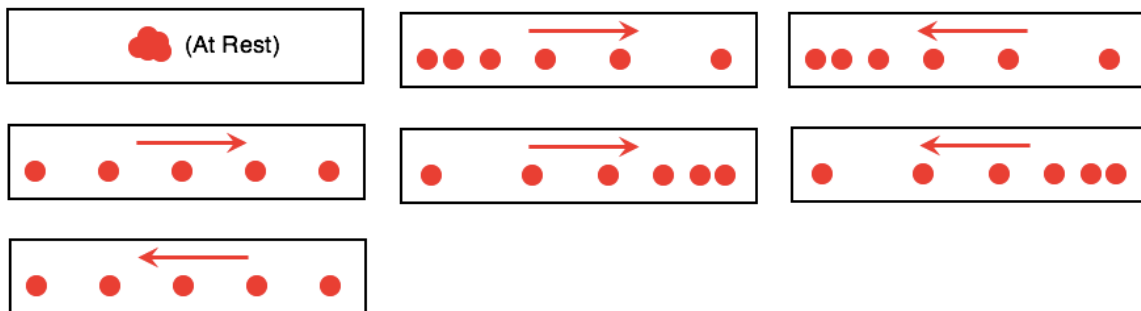


#### Question 14

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

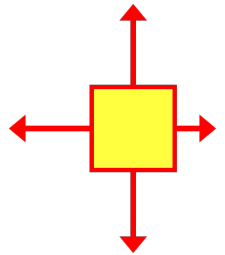


Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.

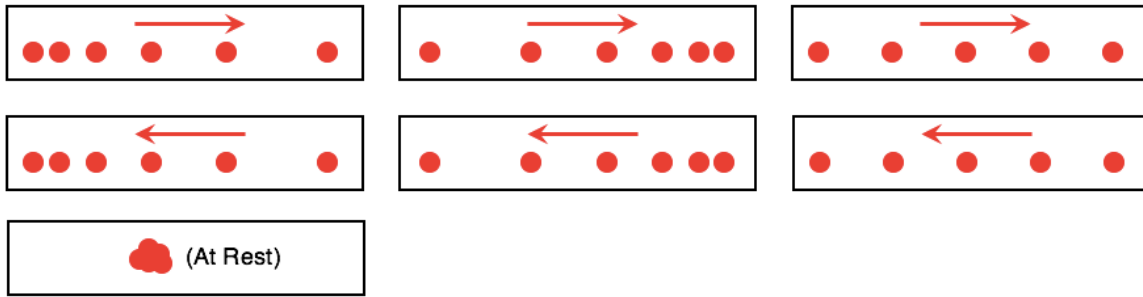


#### Question 15

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.



Which dot diagram represents a possible state of motion for such an object?  
Select all that apply.

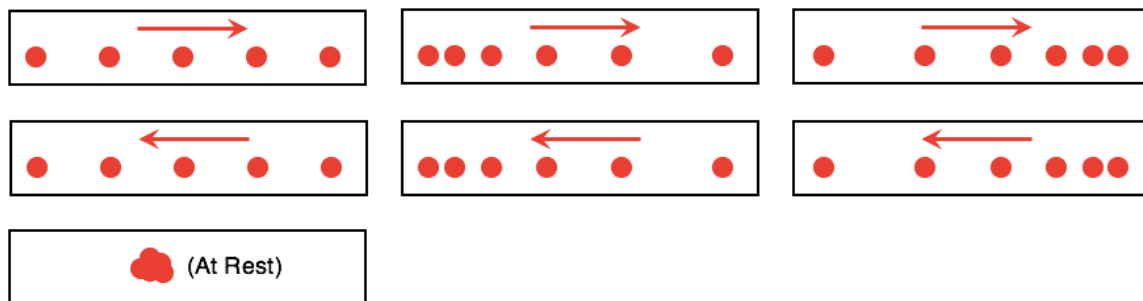
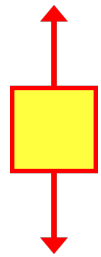


### Question Group 6

#### Question 16

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

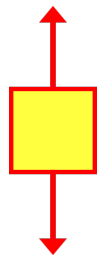
Which dot diagram represents a possible state of motion for such an object? Select all that apply.



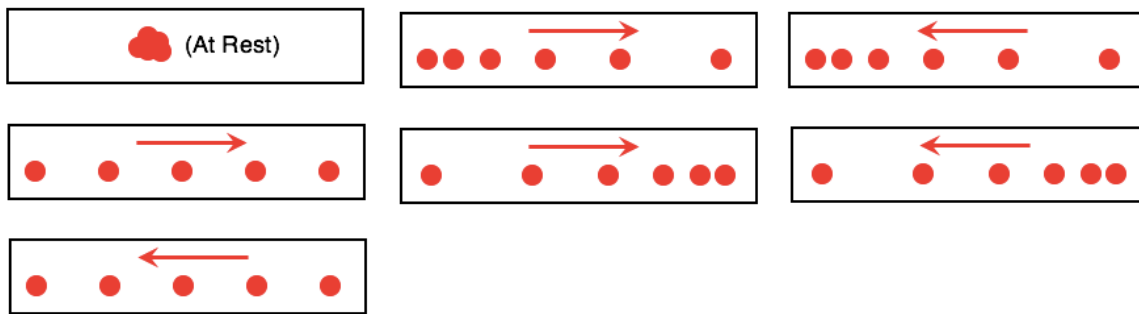
#### Question 17

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.



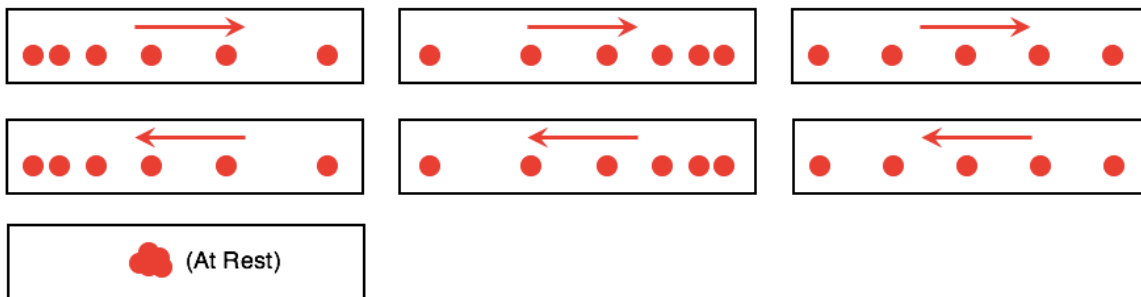
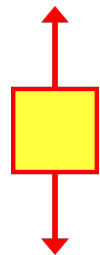




### Question 18

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

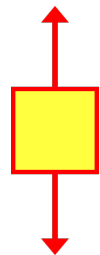


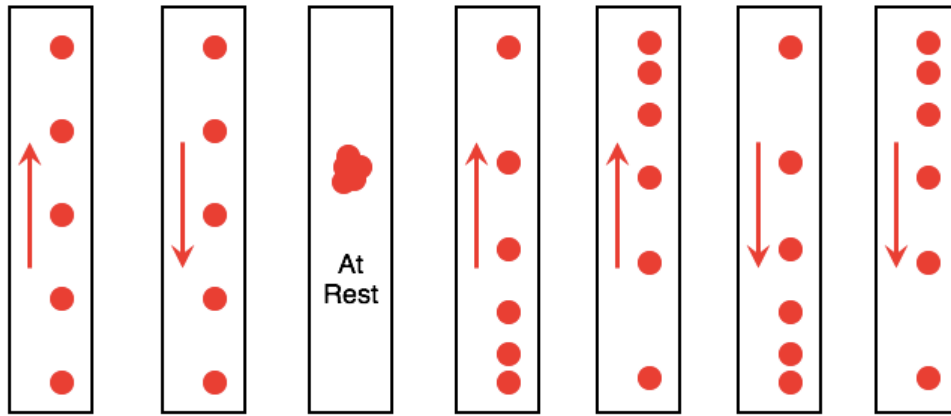
### Question Group 7

#### Question 19

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

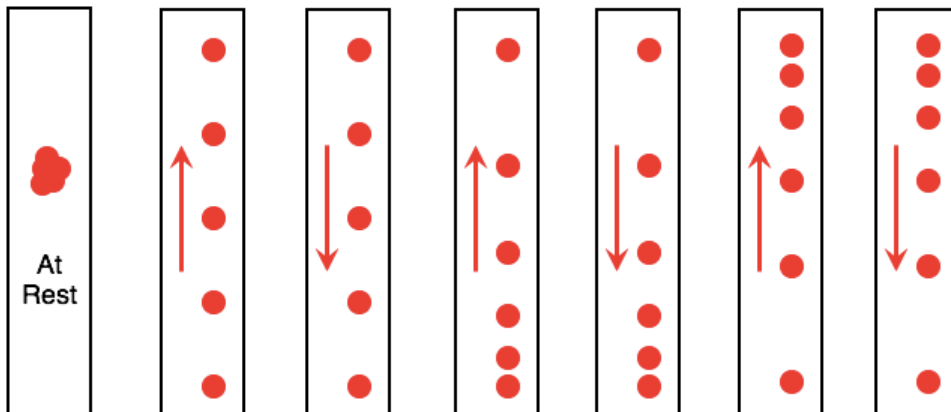
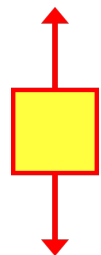




### Question 20

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

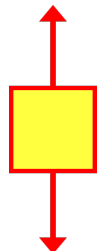
Which dot diagram represents a possible state of motion for such an object? Select all that apply.

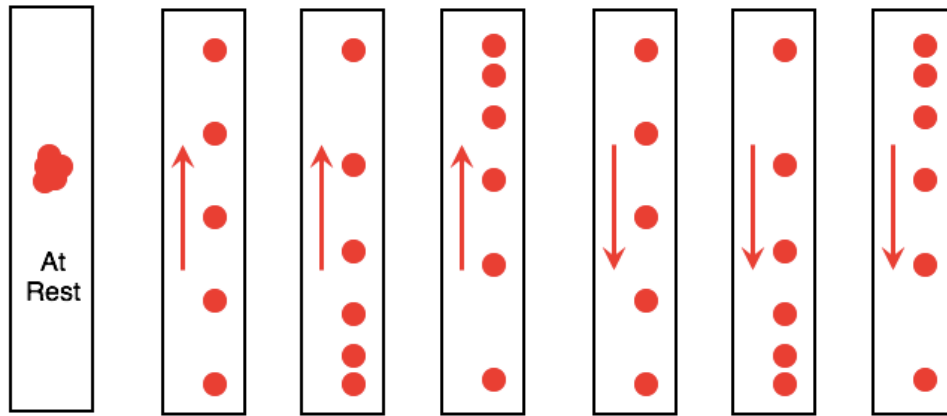


### Question 21

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.



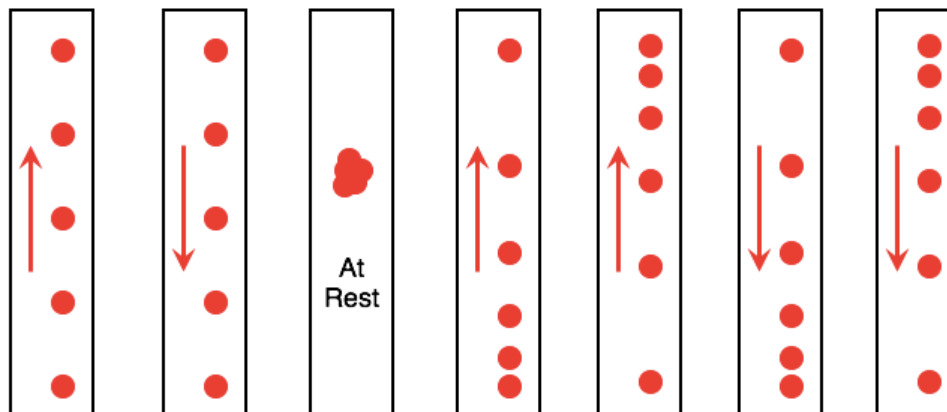
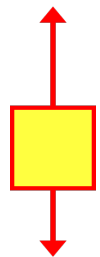


### Question Group 8

#### Question 22

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

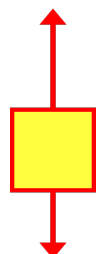
Which dot diagram represents a possible state of motion for such an object? Select all that apply.

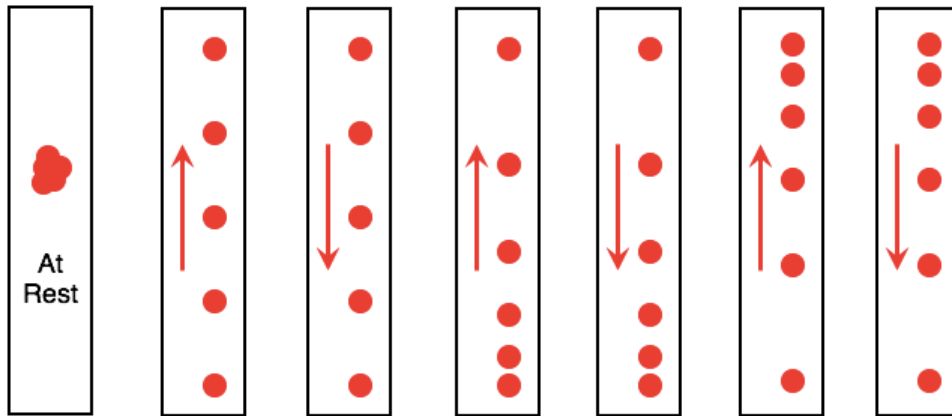


#### Question 23

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

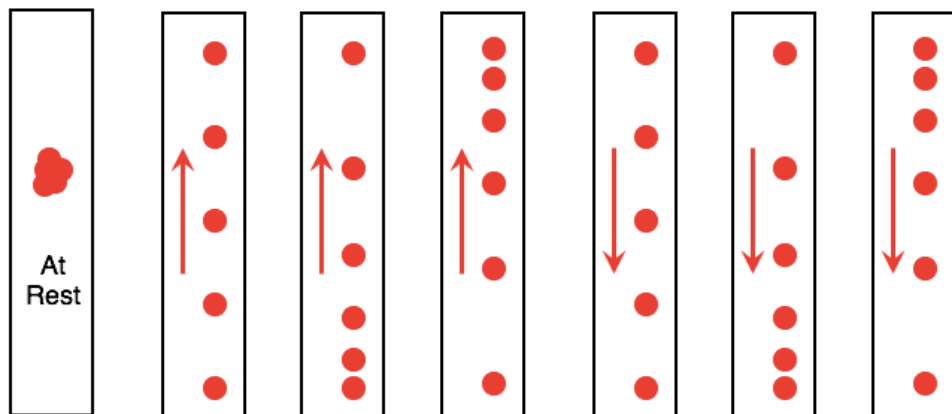
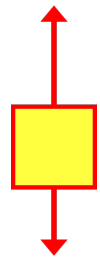




### Question 24

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

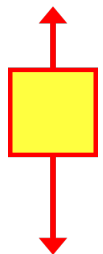


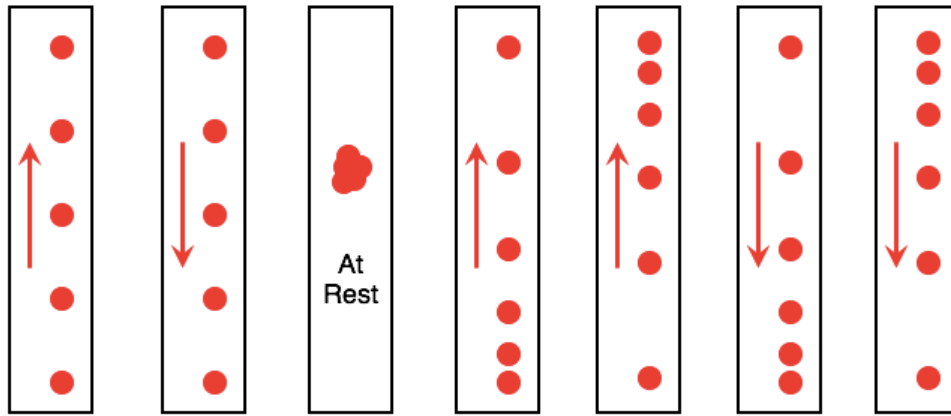
### Question Group 9

#### Question 25

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

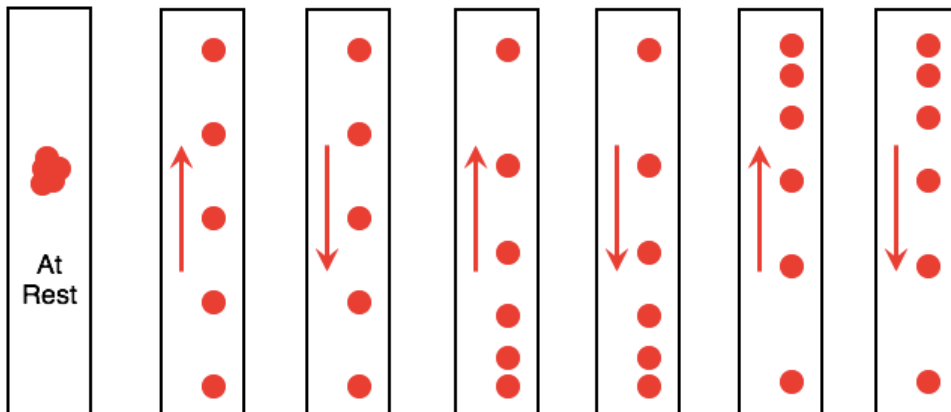
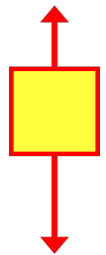




### Question 26

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

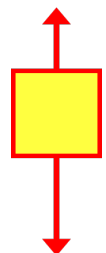
Which dot diagram represents a possible state of motion for such an object? Select all that apply.

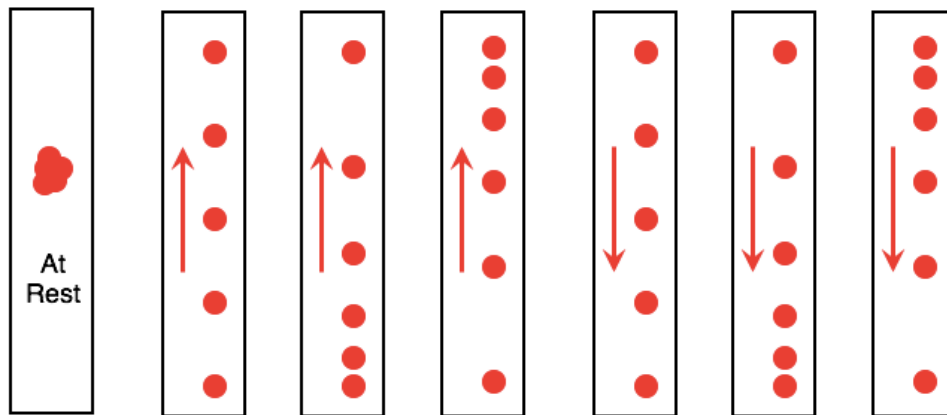


### Question 27

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.



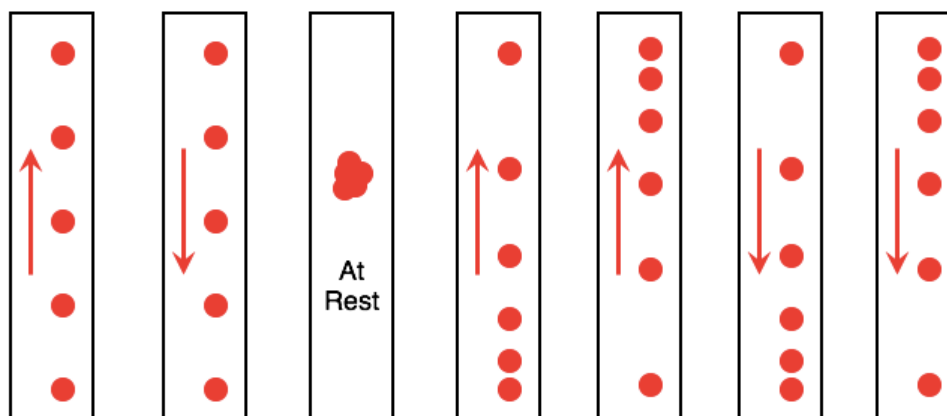
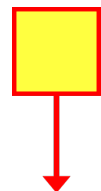


### Question Group 10

#### Question 28

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

Which dot diagram represents a possible state of motion for such an object? Select all that apply.

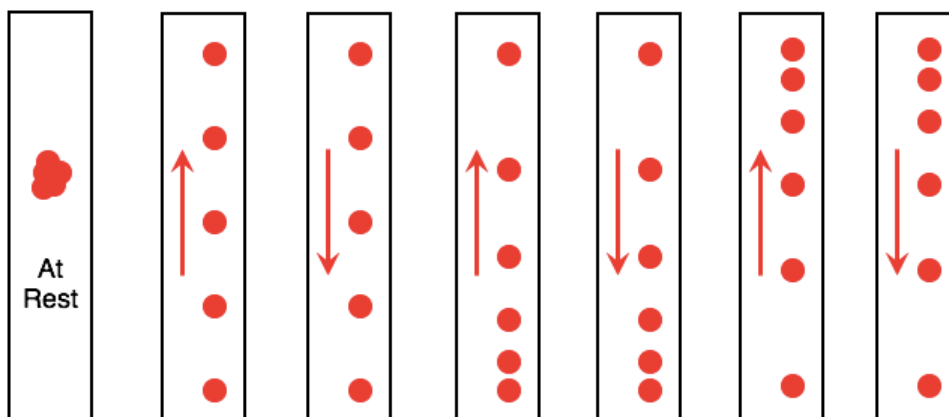


#### Question 29

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.

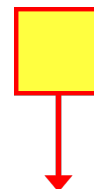


Which dot diagram represents a possible state of motion for such an object? Select all that apply.



### Question 30

An object is experiencing the forces shown at the right. Each arrow represents a force in the specified direction. The length of the arrow represents the strength of the force.



Which dot diagram represents a possible state of motion for such an object? Select all that apply.

