

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Tick the correct boxes for each picture.

1 The forces are:

- balanced  
 unbalanced.

The skydiver will:

- fall faster  
 stay the same speed  
 slow down.

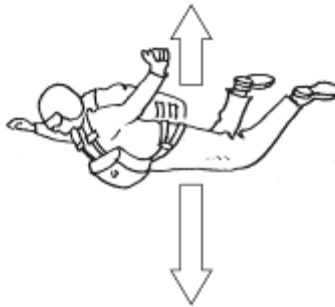


2 The forces are:

- balanced  
 unbalanced.

The skydiver will:

- fall faster  
 stay the same speed  
 slow down.

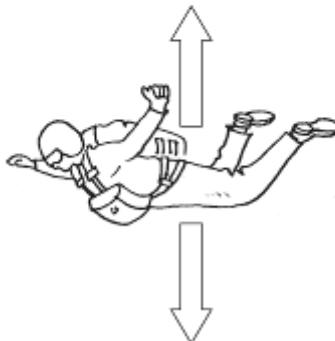


3 The forces are:

- balanced  
 unbalanced.

The skydiver will:

- fall faster  
 stay the same speed  
 slow down.

Why is the upwards force in this drawing bigger than the one in question 2?  
\_\_\_\_\_

4 The forces are:

- balanced  
 unbalanced.

The skydiver will:

- fall faster  
 stay the same speed  
 slow down.



Why is the upwards force in this drawing bigger than the one in question 3?

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5 The forces are:

- balanced  
 unbalanced.

The skydiver will:

- fall faster  
 stay the same speed  
 slow down.



### Answers

- 1 unbalanced, fall faster
- 2 unbalanced, fall faster
- 3 balanced, stay the same speed. She is falling faster, so the air resistance is bigger.
- 4 unbalanced, slow down. There is more air resistance from her parachute because it has a bigger area.
- 5 balanced, stay the same speed

I CAN...

- recall how air resistance changes with speed
- describe what balanced and unbalanced forces can do to the movement of an object.

**Page 2 of 2**