Momentum

Activity 1: What's Happeni Question Group 1:	ng With Momentum?	
Question 1:		
=	d speeding up. The momentum	
a. increasing	b. decreasing	c. remaining constant
Question 2:		
=	d speeding up. The momentum	n of the car is .
	b. decreasing	
Question 3:		
A car is moving northward an	nd speeding up. The momentum	m of the car is
a. increasing	b. decreasing	c. remaining constant
Question 4:		
_	nd speeding up. The momentu	m of the car is .
	b. decreasing	
Question Group 2:		
Question 5:		
-	d slowing down. The momentu	ım of the car is
a. increasing	b. decreasing	
m. moremonia	o. doctomoning	•••••••••••••••••••••••••••••••••••••••
Question 6:		
A car is moving westward an	d slowing down. The moment	um of the car is
a. increasing	b. decreasing	c. remaining constant
Question 7:		
_	nd slowing down. The momen	tum of the car is
a. increasing	b. decreasing	
5 t 8	υ <i>β</i>	υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ
Question 8:		
A car is moving southward at	nd slowing down. The momen	tum of the car is
a. increasing	b. decreasing	c. remaining constant
0 4 6 2		
Question Group 3:		
Question 9:	t a constant speed. The many	ntum of the ear is
a. increasing	at a constant speed. The mome b. decreasing	c. remaining constant
a. moreasing	o. accicasing	o. romanning constant

Question 10:

A truck is moving westward at a constant speed. The momentum of the car is _____.

a. increasing

b. decreasing

c. remaining constant

Question 11:

A truck is moving northward at a constant speed. The momentum of the car is _____.

a. increasing

b. decreasing

c. remaining constant

Question 12:

A truck is moving southward at a constant speed. The momentum of the car is _____.

a. increasing

b. decreasing

c. remaining constant

Question Group 4:

Ouestion 13:

If the speed of a constant-mass object is increasing, then the momentum of the object is _____.

a. increasing

b. decreasing

c. remaining constant

Question 14:

If the speed of a constant-mass object is decreasing, then the momentum of the object is .

a. increasing

b. decreasing

c. remaining constant

Question 15:

If the speed of a constant-mass object is remaining constant, then the momentum of the object is

a. increasing

b. decreasing

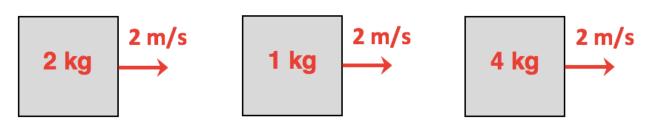
c. remaining constant

Activity 2: Momentum Ranking Tasks

Question Group 5:

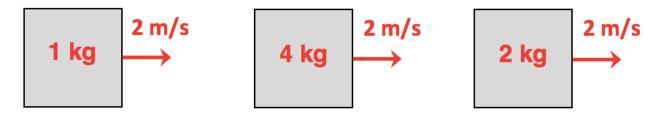
Question 16:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



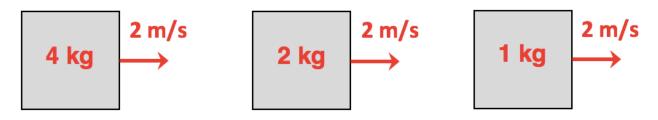
Question 17:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question 18:

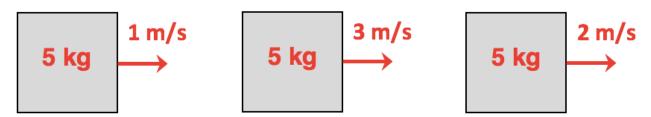
The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question Group 6:

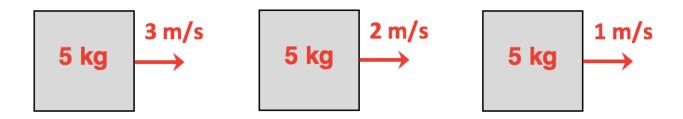
Question 19:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question 20:

The mass and velocity of three objects are shown. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question 21:

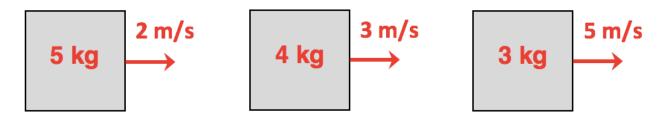
The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question Group 7:

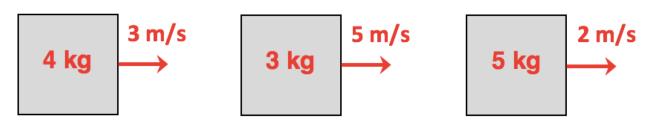
Question 22:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



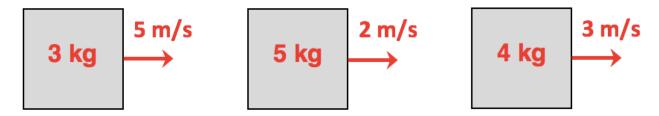
Question 23:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question 24:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question Group 8:

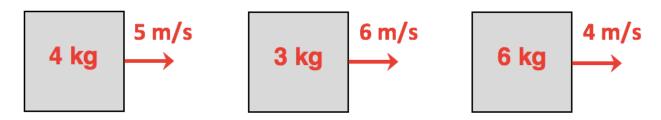
Question 25:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



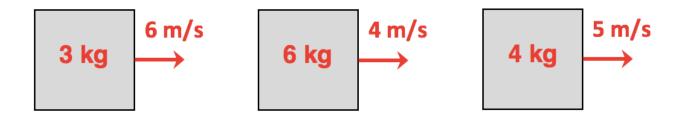
Question 26:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Question 27:

The mass and velocity of three objects are shown below. The arrow represents the direction of the velocity. Rank these three objects in terms of their momentum.



Activity 3: Getting Some Direction on Momentum

Question Group 9:

Ouestion 28:

A car is moving eastward and speeding up. The direction of the car's momentum vector is

a. east

b. west

c. impossible to tell

Ouestion 29:

A car is moving westward and speeding up. The direction of the car's momentum vector is

a. east

b. west

c. impossible to tell

Question 30:

A truck is moving eastward and speeding up. The direction of the truck's momentum vector is

a. east

b. west

c. impossible to tell

Ouestion 31:

A truck is moving westward and speeding up. The direction of the truck's momentum vector is

a. east

b. west

c. impossible to tell

Question Group 10:

Question 32:

A car is moving eastward and slowing down. The direction of the car's momentum vector is

a. east

b. west

c. impossible to tell

Question 33:

A car is moving westward and slowing down. The direction of the car's momentum vector is

a. east

b. west

c. impossible to tell

Question 34: A truck is moving eastward and slowing down. The direction of the truck's momentum vector is				
a. east	b. west	c. impossible to tell		
Question 35: A truck is moving westward	l and slowing down. The direc	tion of the truck's momentum vector is		
a. east	b. west	c. impossible to tell		
Question Group 11: Question 36: A car is moving eastward w	ith a constant speed. The direc	etion of the car's momentum vector is		
a. east	b. west	c. impossible to tell		
Question 37: A car is moving westward v	vith a constant speed. The dire	ction of the car's momentum vector is		
a. east	b. west	c. impossible to tell		
Question 38: A truck is moving eastward is	with a constant speed. The dir	rection of the truck's momentum vector		
a. east	b. west	c. impossible to tell		
Question 39: A truck is moving westward vector is	I with a constant speed. The di	rection of the truck's momentum		
a. east	b. west	c. impossible to tell		
Question Group 12: Question 40:				
A car is slowing down. The a. east	direction of the car's momento b. west	um vector is c. impossible to tell		
Question 41:				
	rection of the car's momentum	n vector is .		
a. east	b. west	c. impossible to tell		

Question 42:							
A truck is slowing down. The direction of the truck's momentum vector is							
a.	east	b. west	c. impossible to tell				
Question 43:							
A truck is speeding up. The direction of the truck's momentum vector is .							
	east	b. west	c. impossible to tell				
			r				