Self Check 2.4

Points 6 Questions 6

Time limit None

Due No due datePointsAllowed attemptsUnlimited

Instructions



This exercise will help you check your knowledge. Please take it as many times as you need to master the concepts. Select the best answer for each question.

Take the quiz again

Attempt history

	Attempt	Time	Score
KEPT	Attempt 4	less than 1 minute	5 out of 6
LATEST	Attempt 4	less than 1 minute	5 out of 6
	Attempt 3	less than 1 minute	4 out of 6
	Attempt 2	1 minute	4 out of 6
	Attempt 1	11 minutes	0 out of 6

() Correct answers are hidden.

Score for this attempt: **5** out of 6 Submitted 21 Mar 2019 at 9:39 This attempt took less than 1 minute. Use the following scenario to answer the next two questions. A child pushes on a 2 kg toy truck with a horizontal force of 15 N. As a result, the toy truck moves with constant velocity.

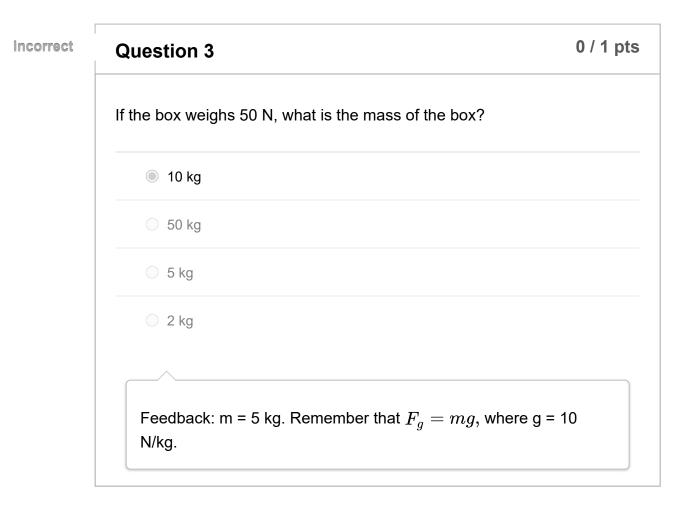
Question 1	1 / 1 pts
How much normal force must there be on the toy truck?	
0 N	
20 N	
30 N	
○ 2 N	
Feedback: $F_N=20N.$ Remember that constant velocity not the forces must be balanced.	neans

Question 2	1 / 1 pts
How much friction must there be on the toy truck?	
0 2 N	
7.5	
30 N	

15 N

Feedback: $F_f = 15N$. Remember that constant velocity means the forces must be balanced.

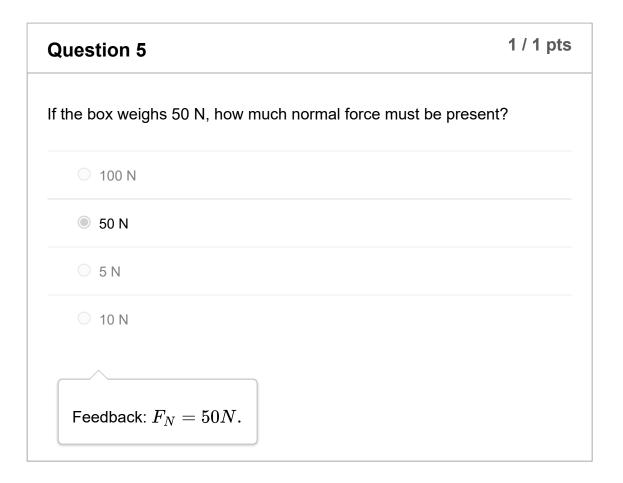
Use the following scenario to answer the following 3 questions. A box is pulled across the floor at constant velocity by a 30 N horizontal tension force.



Question 4

1 / 1 pts

ow much friction must be present?				
0 6 N				
O 300 N				
30 N				
0 60 N				
Feedback: $F_f=30N$				



Question 6 1 / 1 pts

A boy pulls on a wagon with a 100 N force. If the handle makes a 20° angle with the horizontal, how much friction must be pulling back on the wagon in order to have constant velocity? 94 N
120 N
120 N
100 N
5 N

Feedback: $F_f = F_{Tx} = 100cos20 = 94N$

Quiz score: 5 out of 6