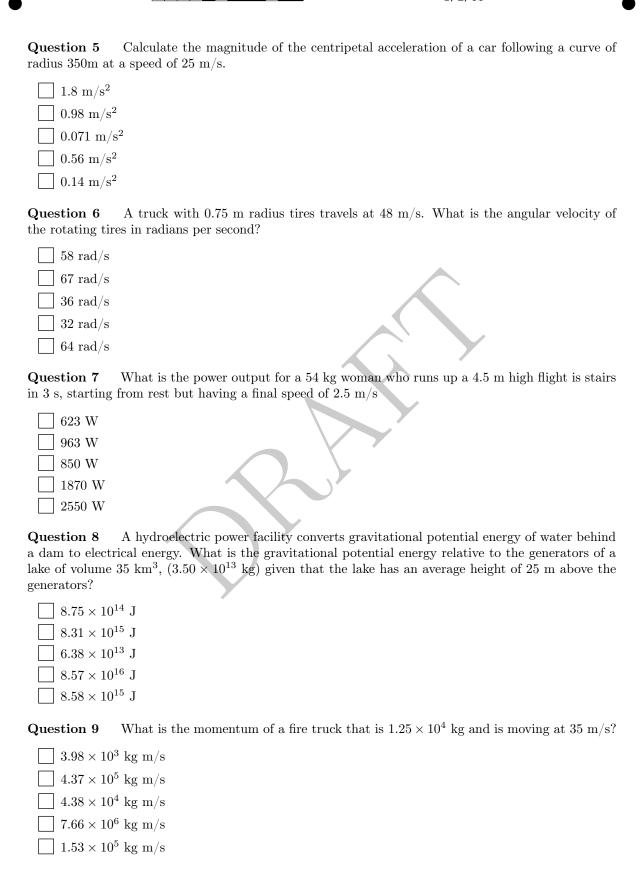
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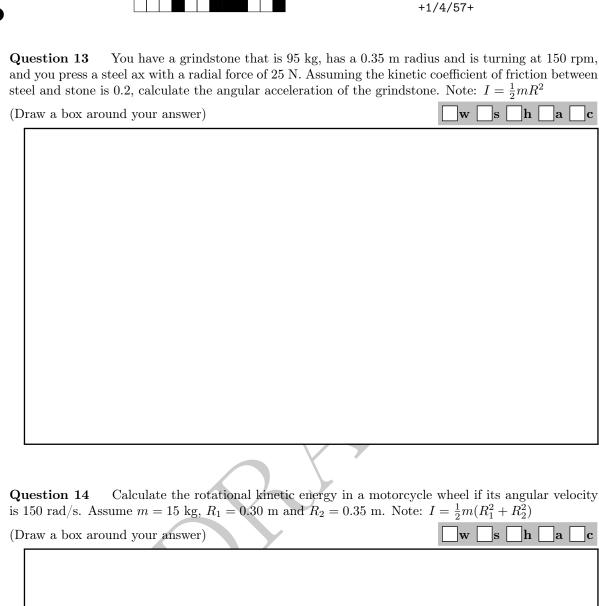
PHY 171	Exam 2	Fall 2018
Name:		
Question 1 Courtney Force topped qualifying with a 3.826- als. What was her average acceleration?	second run at 150.2	$2\mathrm{m/s}$ in the NHRA Arizona Nation-
$ ightharpoons 39.26 \mathrm{\ m/s^2}$		
$\boxed{}$ 32.8 m/s ²		
$ ightharpoons 36.95 \mathrm{\ m/s}$		
ightharpoons 39.3 m/s		
28.33 m/s^2		
Question 2 A jogger runs down a straight re What is her final position if her initial position		velocity of 2.5 m/s for 6.00 minutes.
☐ 15 m		Y
975 m		
14.5 m		
860 m		,
☐ 900 m		
Question 3 Suppose the net external force. The mass of the vaccun cleaner is 15 kg. What		um cleaner is 23 N parallel to floor.
\square 1.5 m/s ²		
\square 345 m/s ²		
☐ 1.53 m/s		
$\square 0.652 \; \mathrm{m/s^2}$		
$igsqcup 0.65 \; \mathrm{m/s}$		
Question 4 Suppose a 130 kg wooden crate you can exert horizontally on the crate withou		
☐ 380 N		
640 N		
☐ 65 N		
☐ 720 N		
☐ 1300 N		



For your examination, preferably print documents compiled from auto-multiple-choice.

Question 10 Two children push in opposite sides of a door during play. Both push horizontally and perpendicular to the door. One child pushes with a force of 15.0 N at a distance of 0.30 m from the hinges, and the second child pushes at a distance of 0.20 m. What force must the second child exert to keep the door from moving? Assume friction if negligible.
☐ 21.2 N ☐ 16.4 N ☐ 25.3 N ☐ 22.5 N
☐ 10.0 N
Question 11 Train cars are coupled together by being bumped into one another. Suppose two loaded train cars are moving toward one another, the first having a mass of $112,000$ kg and a velocity of 0.3 m/s, and a second having a mass of $132,000$ kg and a velocity of -0.4 m/s. What is their final velocity?
\Box -0.354 m/s
Question 12 A person carries a plank of wood 2 m long with one hand pushing down on it at one end with a force F_1 and the other hand holding it up at .35 m from the end of the plank with a force of F_2 . If the plank has a mass of 12 kg and its center of gravity is at the middle of the plank, what are the
magnitudes of the forces F_1 and F_2 ? (Draw a box around your answer) $\boxed{\mathbf{w} \mathbf{s} \mathbf{h} \mathbf{a} \mathbf{c}}$
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