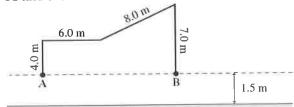
Name:		Class:	Date:	ID: A
Ch6M	[id Y	lYrReview		
		6.1 Conceptual Questions		
	1)	 Person X pushes twice as hard against a stationary following statements is correct? A) Both do positive work, but person X does fou B) Both do positive work, but person X does twi C) Both do the same amount of positive work. D) Both do zero work. E) Both do positive work, but person X does one 	or times the work of person ice the work of person Y.	Y.
	2)		nas stalled, trying unsuccess	fully to get it moving.
	3)	A) negative.B) positive.C) The work could be either positive or negative object moves.	e, depending on the direction	n the
	4)	work did gravity do on the bucket during this pro A) 180 J B) 90 J C) 45 J D) 0 J E) 900 J	ocess?	
	5)	 up with the sign of the work done by gravity whi A) The work is positive on the way up and posi B) The work is positive on the way up and nega C) The work is negative on the way up and posi D) The work is negative on the way up and on talways downward. 	le it goes down. tive on the way down. ative on the way down. itive on the way down. the way down because gravi	ty is
-	6)	 6) Which one has larger kinetic energy: a 500-kg of at 20 m/s? A) The 500-kg object B) The 1000-kg object C) Both have the same kinetic energy. 	bject moving at 40 m/s or a	1000-kg object moving

П	D	:	A

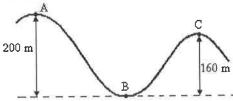
Name:			ID: A
	7)	You slam on the brakes of you	car in a panic, and skid a certain distance on a straight level road. If
	,,	you had been traveling twice as conditions?	s fast, what distance would the car have skidded, under the same
		A) It would have skidded 4 times	nes farther
		B) It would have skidded twice	
		C) It would have skidded 1.4	
		D) It would have skidded one	
		E) It is impossible to tell from	
	8)		ove the ground. A second stone with four times the mass of the first
	0)	one is held at the same height.	The gravitational potential energy of the second stone compared to
		that of the first stone is	
		A) one-fourth as much.	
		B) one-half as much.	
		C) twice as much.	
		D) four times as much.	
		E) the same.	
	9)	You and your friend, who weight	ghs the same as you, want to go to the top of the Eiffel Tower. Your
		friend takes the elevator straig	ht up. You decide to walk up the spiral stairway, taking longer to do
		so. Compare the gravitational	potential energy of you and your friend, after you both reach the top.
		A) It is impossible to tell, sin	ce the times you both took are unknown.
		B) It is impossible to tell, sin	ce the distances you both traveled are unknown.
			I potential energy is greater than yours, because he got to
		the top faster.	of a Committee in all materatical anamous at the ten
		D) Both of you have the sam	e amount of gravitational potential energy at the top.
		E) Your gravitational potenti- traveled a greater distance	al energy is greater than that of your friend, because you
	10)		are dropped from the same height and experience no significant air
	10)	recistors as they fall Which	of the following statements about these rocks are correct? (There could
		be more than one correct choice	
			kinetic energy when they reach the ground.
		B) Both rocks have the same	speed when they reach the ground.
		C) The heavier rock reaches	the ground before the lighter rock.
		D) Just as they were released	, both rocks had the same amount of gravitational
		potential energy.	,
		E) When they reach the grou	and, the heavier rock has more kinetic energy than the
		lighter rock.	

6.2 Problems

11) A person carries a 25.0-N rock through the path shown in the figure, starting at point A and ending at point B. The total time from A to B is 1.50 min. How much work did gravity do on the rock between A and B?



- A) 625 J
- B) 20.0 J
- C) 275 J
- D) 75 J
- E) 0 J
- 12) How much kinetic energy does a 0.30-kg stone have if it is thrown at 44 m/s?
 - A) 290 J
 - B) 580 J
 - C) 440 J
 - D) 510 J
- A bead is moving with a speed of 20 m/s at position A on the track shown in the figure. This track is friction-free, and there is no appreciable air resistance. What is the speed of the bead at point C?



- A) 0 m/s
- B) 34 m/s
- C) 69 m/s
- D) 20 m/s
- E) We cannot solve this problem without knowing the mass of the bead.

Ch6MidYrReview Answer Section

1)	ANS:	D	PTS:	1	REF:	Var: 1
2)	ANS:	E	PTS:	1	REF:	Var: 1
3)	ANS:	C	PTS:	1	REF:	Var: 1
4)	ANS:	D	PTS:	1	REF:	Var: 1
5)	ANS:	C	PTS:	1	REF:	Var: 1
6)	ANS:	Α	PTS:	1	REF:	Var: 1
7)	ANS:	Α	PTS:	1	REF:	Var: 1
8)	ANS:	D	PTS:	1	REF:	Var: 1
9)	ANS:	D	PTS:	1	REF:	Var: 1
10)	ANS:	B, E	PTS:	1	REF:	Var: 1
11)	ANS:	E	PTS:	1	REF:	Var: 1
12)	ANS:	A	PTS:	1	REF:	Var: 19
	ANS:		PTS:	1	REF:	Var: 1