
Use $KE = \frac{1}{2}mv^2$. Show working.

Problem	Answer	Problem	Answer
1. 2 kg at 3 m/s		4. Mass if KE = 50 J at 5 m/s	
2. 0.145 kg at 40 m/s		5. Speed of 10 kg with 500 J	
3. 1,000 kg at 20 m/s		6. KE change when speed triples	

Notes

Answer key — Kinetic energy problems

#	Problem	Answer
1	2 kg at 3 m/s	9 J
2	0.145 kg at 40 m/s	116 J
3	1,000 kg at 20 m/s	200 kJ
4	Mass if KE = 50 J at 5 m/s	4 kg
5	Speed of 10 kg with 500 J	10 m/s
6	KE change when speed triples	$\times 9$

Notes