

NAME _____

DATE _____

Movie: ESPN Sports Figures-Tracking Speed

1. What event does Dan O'brien do in track? _____
2. What do all sports have? _____
3. What does speed measure? _____
4. What two things help to measure speed? _____
5. What is the equation for speed? _____
6. What units can speed be measure in? _____
7. What two types of speed are there? _____
8. What measures instantaneous speed? _____
9. What do splits measure? _____
10. What happens when an object is accelerating? _____
11. What happens when an object has a negative acceleration? _____
12. What does acceleration measure? _____
13. What is the equation for acceleration? _____
14. What are the units for acceleration? _____
15. How fast does an object go if you just drop it? _____
16. The following split times are given for a moving object. Determine the average velocity during each distance interval.

Position(m) :	0-5	5-10	10-5	15-20	20-25
Time (s):	1.6	2.4	3.0	3.5	4.0
Av. Velocity (m/s) :					
17. Is the object accelerating or decelerating? Explain your answer!

18. Determine the average velocity of the object over the time recorded
19. Determine the average acceleration of the object over the time recorded