

## AP Fizzix : WS 3-15

- 1) Evil Kittlevil picked up speed coming down a ramp built so its lowest point is below ground level, then took off from a point on the parking lot. His trajectory was at  $20^\circ$  above horizontal at the moment he just cleared the first of 14 school buses, each 3 m wide and 3 m tall, parked with sides touching. He just cleared the last bus and landed on the parking lot at the same height from which he became airborne.
  - [a] What were the horizontal and vertical components of his take-off speed?
  - [b] How long was he in the air?
  - [c] What total horizontal distance was covered in his jump?
  - [d] What are the names of the Paramedics that put him back together after crashing?