

**Ex 1)** Starting from rest, a child zooms down a frictionless slide from an initial height of 3.00 m. What is her speed at the bottom of the slide? Assume she has a mass of 25.0 kg.

**Ex 1)** Starting from rest, a child zooms down a frictionless slide from an initial height of 3.00 m. What is her speed at the bottom of the slide? Assume she has a mass of 25.0 kg.

**Ex 2)** You slide a trashcan ( $m = 10.2 \text{ kg}$ ) across the floor with an initial velocity of 7.9 m/s.

- (a) If the trashcan eventually stops, what is the work done by friction?
- (b) If the force of friction is  $-29.4 \text{ N}$ , how far does the trash can go?

**Ex 2)** You slide a trashcan ( $m = 10.2 \text{ kg}$ ) across the floor with an initial velocity of 7.9 m/s.

- (a) If the trashcan eventually stops, what is the work done by friction?
- (b) If the force of friction is  $-29.4 \text{ N}$ , how far does the trash can go?