



## Problem of the Week

### Problem C

#### Faster!

Georgina enters a 12 km race. She wants to finish the race in one hour and twenty minutes. She starts off jogging at a speed of 7 km/h. After 30 minutes, she realizes that she needs to increase her speed to finish the race in her desired time. For the remaining time, what speed must she run at to finish the race in exactly one hour and twenty minutes?



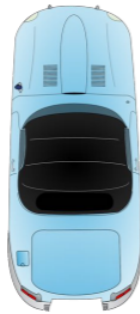
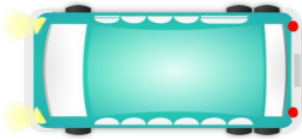
## Problem of the Week

### Problem D

### Parting Ways

At 7:00 a.m., Sahil drives north at 48 km/h. At the same time from the same intersection, Brenda drives west at 64 km/h.

At what time will they be 260 km apart?



## Problem of the Week

### Problem E

#### Uphill then Down

Two racers compete in a 1400 m race. The first 700 m of the race is uphill, and the second 700 m is down the same hill along the same path. Each racer's constant uphill speed is half of their respective constant downhill speed.

The faster racer reaches the top of the hill and immediately starts running downhill. The faster racer then meets the slower racer (still going uphill) 70 m from the top of the hill.

When the faster racer finishes the race, how far is the slower racer from the finish line?

