

A 20 kg object moving at 24 m/s slows to 3 m/s due to friction.

A) How much energy is converted to heat?

The loss of  $E_k$  turns to  $Q$ .

$$E_{k_i} = \frac{1}{2}(20)(24)^2 = 5760 \text{ initial}$$

$$E_{k_f} = \frac{1}{2}(20)(3)^2 = 90 \text{ final}$$

so  $\Delta E_k = 5670 \text{ J}$

B) If the box absorbs three-fourths of the energy, how much does it gain?

$$5670(.75) = 4253 \text{ J}$$

C) Is the box or the floor a better conductor?

box - because it absorbs more of the  $Q$ .

D) If the box is made up copper and originally at 22°C, what is its final temperature after it stops?

$$Q = mc\Delta T = 20(387)(T_f - 22)$$

$$4253 = 7740(T_f - 22)$$

$$.549 = T_f - 22$$

$$T_f = 22.549^\circ\text{C}$$

If a piece of wood and a piece of metal of equal mass are laying on a table in the sun.

A) After a while, which one will be hotter?

metal

B) Why?

conductor - lower  $C_p$

A 250 g iron bolt at 70°C is dropped into an 100g aluminum calorimeter of containing 200 g of water.

If the water and calorimeter are at room temperature (22°C) to begin with, find the final temperature when they come to thermal equilibrium? \* see below

$$m_{\text{iron}} = .25 \text{ kg}$$

$$m_{\text{water}} = .2 \text{ kg}$$

$$m_{\text{cal}} = .1 \text{ kg}$$

$$-Q_{\text{hot}} = Q_{\text{cold water}} + Q_{\text{cold calorimeter}}$$

$$-m c \Delta T = m_{\text{H}_2\text{O}} c \Delta T + m c \Delta T$$

$$-.25(448)(T_f - 70) = .2(4184)(T_f - 22) + .1(899)(T_f - 22)$$

$$= (T_f - 22)(837.2 + 89.9)$$

$$-112(T_f - 70) = (T_f - 22)927.1$$

$$-112T_f + 7840 = 927.1T_f - 20396$$

$$2.8 \times 10^4 = 1039T_f$$

$$26.9^\circ\text{C} = T_f$$

\* - we put a negative on the left side because it is already negative (it is losing  $Q$ ).

# Heat And Thermo 1 Answer Key Stephen Murray

**Annelies Wilder-Smith**



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