

# ENERGY & RECYCLING

① Cans collected in year?

$$= \left[ \frac{91 \times 10^6 \text{ cans}}{12} \right]$$

② Trips needed to collect cans?

$$= \left[ \frac{4 \times 10^2 \text{ trips}}{400 \text{ trips}} \right]$$

③ Liters fuel to pick up cans?

$$= \left[ 6 \times 10^3 \text{ L fuel} \right]$$

④ Kilojoules energy used picking up cans?

$$= \left[ 252 \times 10^6 \text{ kJ} \right]$$

⑤ Energy to collect cans?    Energy to make recycled cans?

$$252 \times 10^6 \text{ kJ}$$

$$1638 \times 10^7 \text{ kJ}$$

$$= \left[ 1663.2 \times 10^7 \text{ kJ} \right]$$

⑥ Energy to make banxite cans?

$$= \left[ 13832 \times 10^7 \text{ kJ} \right]$$

(17)

(a) Difference between recycled & bauxite cans?

$$= \boxed{12194 \times 10^7 \text{ kg more to make bauxite cans}}$$

(b) Liters fuel saved using recycled cans?

$$\approx \boxed{3 \times 10^6 \text{ L fuel saved}}$$