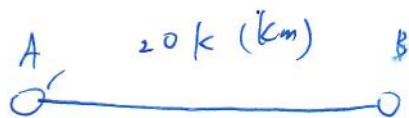



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$$\text{speed} = 2.5 \times 10^8 \text{ (m/s)}$$

$$(a) \quad 2 \text{ M} \times \frac{20 \text{ k} \times 10^3}{2.5 \times 10^8} = 160 \text{ k (bits)}$$

(b)  when the first arrived host B
the $d_{\text{prop}} \times R$ bits just left
host A

$$\Rightarrow \boxed{160 \text{ k bits}} \#$$

(c) the maximum number of bits in the link
at the same time

$$(d) \quad \frac{20 \text{ k (km)}}{160 \text{ k (bits)}} = \frac{125 \text{ m}}{\#} \text{ , longer than a football field}$$

$$(e) \quad \frac{m}{R \cdot d_{\text{prop}}} = \frac{m}{R \times \frac{m}{s}} = \boxed{\frac{s}{R}} \#$$