Srednja brzina kod RPPK

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Kako smo u šestom razredu računali srednju brzinu kod RPK?

$$S_u = S_1 + S_2 + S_3 + ...$$

$$t_u = t_1 + t_2 + t_3 + ...$$

$$v_{sr} = \frac{S_u}{t_u}$$

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$$t = 5s$$
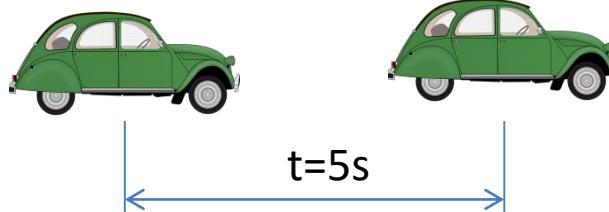
$$v_0 = 10 \ \frac{m}{s}$$

$$v = 30 \ \frac{m}{s}$$

$$v_{sr} = \frac{v_0 + v}{2}$$

$$v_{sr} = \frac{S_u}{t_u}$$

$$v_{sr} = \frac{10 \ \frac{m}{s} + 30 \ \frac{m}{s}}{2} = \frac{40 \ \frac{m}{s}}{2}$$

$$v_{sr} = 20 \ \frac{m}{s}$$

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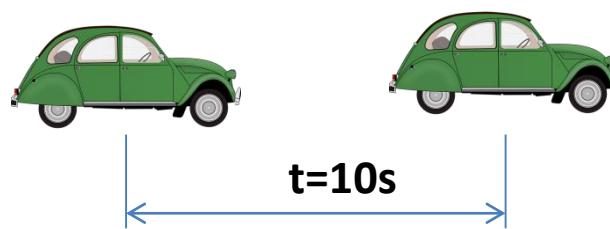
$$v_{sr} = \frac{v_0 + v}{2}$$

$$v_{sr} = \frac{S_u}{t_u}$$

$$v_{sr} = \frac{40\ \frac{m}{s} + 20\ \frac{m}{s}}{2} = \frac{60\ \frac{m}{s}}{2}$$

t=10s

$$v_0 = 40\ \frac{m}{s}$$

$$v = 20\ \frac{m}{s}$$

$$v_{sr} = 30\ \frac{m}{s}$$

$$t_u = 10s$$

$$v_{sr} = \frac{S_u}{t_u}$$

$$2 = \frac{6}{3}$$

$$S_u = v_{sr} \cdot t_u$$

$$S_u = 30\ \frac{m}{s} \cdot 10s$$

$$t_u = \frac{S_u}{v_{sr}}$$

$$S_u = v_{sr} \cdot t_u$$

$$S_u = 300\ m$$