$$13)$$
 $S = 0.10 m/s$
 $0.5 = 0.5 m/s^2$
 $0.5 = 0.5 m/s^2$

$$S_{2} = S_{1} + at$$

$$-s_{1} = 9t$$

$$S_{2} - S_{1} = 4$$

$$S_{2} - S_{1} = t$$

$$S_{3} - S_{1} - S_{1} - S_{2} - S_{1} - S_{2} - S_{1} - S_{2} - S_{2} - S_{1} - S_{2} - S$$

14)
$$S_1 = 95 \frac{1}{3}/5$$

 $9 = -4.40 \frac{1}{3}$ $S_2 = S_1 + at$
 $S_1 = 0 \frac{1}{3}$ $S_3 = S_1 + at$
 $S_2 = 0 \frac{1}{3}$ $S_3 = S_1 + at$
 $S_2 = 0 \frac{1}{3}$ $S_3 = S_1 + at$
 $S_4 = 0 \frac{1}{3}$ $S_4 = 0$
 $S_4 = 0$
 $S_5 = 0$
 $S_7 = 0$

2 m/s /m/s -/m/s2 A car accelerates from rest to a final speed of 6.0m/s in a time of 3.0s. What is the acceleration of the car?

1 5 1

A car is hit from behind by a large truck. The impact lasts for 0.10s and causes an acceleration of 45m/s^2 of the car. What was the car's change in speed?

$$S = axt$$

= 0.108 x 45 m/s, $S.8$
= 4.5 m/s $S.8$

A duck, resting on the water, takes off and reaches a speed of 35km/hr in 4.0min. What was the acceleration of the duck?

While pulling a barge, a tugboat accelerates at 0.10m/s² to produce a 5.0m/s change in speed of the barge. How long did this take?

A flea can jump an amazing 130 times its own height. This is achieved by a phenomenal acceleration of about 1.5km/s² over a time of 1.0ms. What is the final speed of the flea at the end of the 1.0ms?