2.3 Quizlette – How Far

Name

1. A car going 11.0 m/s accelerates at 0.890 m/s/s for 15.0 s. How far does it go in this time?

1:11 car going 11:0 m/s ac	_
X =	
$V_i =$	
$V_f =$	
a =	
t =	

Show your stans

2. A runner accelerates from rest at 3.40 m/s/s to a final velocity of 9.40 m/s. What distance do they go?

X =	
$V_i =$	
$V_{\mathrm{f}} =$	
a =	
t =	

Formula
Show your steps

3. A tennis ball cannon rolls to a stop covering a distance of 3.80 m in 7.20 s. What was its initial velocity?

X =	
$V_i =$	
$V_f =$	
a =	
t =	

Formula

Show your steps

4. What is the acceleration of a car that accelerates from 17.0 m/s to 11.0 m/s in 3.40 s?

X =	
$V_i =$	
$V_f =$	
a =	
t =	

Formula

Show your step

5. An accident scene investigator determines by measuring skid marks, that a car strikes a parked car at 8.20 m/s after having decelerated at -9.60 m/s/s for a distance of 17.0 m. What was the initial velocity of the car?

X =	Formula
$V_i =$	Show your steps
$V_{ m f} =$	
a =	
t =	

6. A car covers 113 m accelerating at 0.640 m/s/s for 14.0 s. What was its initial velocity?

X =	Formula
$V_i =$	Show your steps
$V_f =$	
a =	
t =	

7. A racecar is going 34.0 m/s after decelerating for 242 m for 4.50 s. What was its deceleration?

71111400041 15 Bolling C 110	mas arrest accountained for a real meters where was the account
X =	Formulas - hint - find Vi first
$V_i =$	
$V_{\rm f} =$	Show your steps
a =	
t =	

8. A car going 20.0 m/s accelerates at 0.920 m/s/s. What time does it take to cover 123 m?

X =	Formulas - hint - find Vf first
$V_i =$	
$V_{\rm f} =$	Show your steps
a =	
t =	