

Find The Matches!

Physics 432

Name _____
1 2 3 4 5 6 7 8

1. A Plaid car changed from 12 to 36.6 m/s in 3 seconds. What is the car's acceleration?
2. A Brown Car moves with an acceleration of 15.1 m/s/s for 2.6 seconds. If the initial velocity was 10.04 m/s, what was the final velocity?
3. A Orange Car moves from 13 to 37 m/s with an acceleration of 6 m/s/s. How long did this take?
4. A White Car Moves from rest with an acceleration of 5 m/s/s for 4 seconds. How far will the car move in this time?
5. A Green Car starts at 12 m/s and accelerates at 2 m/s/s up to 16 m/s. How long did this take?
6. A Yellow Car traveled across 2.55 meters with an acceleration of 5.1 m/s/s. If the initial velocity was 9.9 m/s, what was the final velocity?
7. A Tan Car traveled at 4.3 m/s/s for two seconds. What will be the car's final velocity if its initial velocity was 6.4 m/s?
8. A Red Car moves from 2 m/s across a displacement of -56 meters in 4 seconds. What was the car's acceleration?
9. A Silver Car Moves across 64.35 meters with an acceleration of 14.3 m/s. Given an initial velocity of 6.4 m/s, what was the final velocity?
10. A Black Car travels for 2 seconds at 4.3 m/s/s. If the car's initial velocity was 6.4 m/s, what was its final velocity?

11. A Pink car traveled for 1 second at a rate of 48.3 m/s^2 . If the final velocity of the car is 48.3 m/s , what was the initial velocity?

12. A Turquoise Car moves from 88 m/s to 20 m/s with an acceleration of 17 m/s^2 . How long did this take?

13. A Blue Car moves from rest up to a speed of 20 m/s with an acceleration of 5 m/s^2 . How far did the car travel during this time?

14. A Violet Car moves from -3 to -27.8 m/s over a displacement of -67.7 meters. What was the acceleration of the car?

15.. A Zebra Print car traveled 122.74 meters in 3.8 seconds while accelerating at a rate of 17 m/s^2 . What was the Car's starting velocity?

16. A Purple car started at 30 m/s and accelerated at 22 m/s^2 for 296 meters. How long was it moving for?

17. A Leopard Print Car moves from rest up to 8 m/s with an acceleration of 4 m/s^2 . How far did the car travel during this time?

18. A Polka Dot car starts at 16 m/s and smoothly accelerates up to 32 m/s with an acceleration of 16 m/s^2 . What was the distance traveled for this time?