Constant Motion Quiz 1

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 2

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 3

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 4

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 5

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 6

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 7

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 8

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 9

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Constant Motion Quiz 10

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Section 1: Constant Speed

1. A literal horse spends 50 seconds moving at 43 m/s.   
   
 How much distance was travelled?

2. A physics student moves 364 meters over 13 seconds.   
   
How fast was the physics student moving?

3. A physics student spends 40 seconds moving at 31 m/s.   
   
 How much distance was travelled?

4. A kindergartener's action figure moves 820 meters over 20 seconds.   
   
How fast was the kindergartener's action figure moving?

5. A box of tnt moves at 23 m/s, covering 1035 meters of distance.   
   
How long did it take to do this?

## Section 2: Distance and Displacement

6. A crown jewel goes on a walk, and makes the following movements:   
1. 7 meters South   
2. 6 meters South   
  
What is the total distance and net displacment of the crown jewel?

7. A magic mirror goes on a walk, and makes the following movements:   
1. 32 meters North   
2. 13 meters North   
3. 32 meters South   
4. 2 meters North   
  
What is the total distance and net displacment of the magic mirror?

8. A snare drum goes on a walk, and makes the following movements:   
1. 86 meters down   
2. 66 meters down   
3. 97 meters down   
4. 43 meters up   
5. 55 meters down   
6. 64 meters down   
  
What is the total distance and net displacment of the snare drum?

## Section 3: Average Speed

9. A yard stick travels 576 meters in 32 seconds,  
   
 then 1800 meters in 36 seconds.  
   
 What is the average speed of the yard stick?

10. A physics student travels 1806 meters in 42 seconds,  
   
 then 1935 meters in 43 seconds.  
   
 What is the average speed of the physics student?

11. A golf ball travels at 49 m/s for 26 seconds,  
   
 then 22 m/s over 924 meters.  
   
 What is the average speed of the golf ball?

12. A bonsai tree travels at 20 m/s for 48 seconds,  
   
 then 14 m/s over 378 meters.  
   
 What is the average speed of the bonsai tree?

## Section 4: Average Velocity

13. A jar of rephlogisticated air travels 860 meters to the right in 20 seconds,  
   
 then 570 meters to the left in 19 seconds.  
   
 What is the average velocity of the jar of rephlogisticated air?

14. A concerning omen travels 1886 meters to the right in 41 seconds,  
   
 then 435 meters to the left in 15 seconds.  
   
 What is the average velocity of the concerning omen?

15. A potted fern travels at 37 m/s to the left for 38 seconds,  
   
 then 11 m/s to the right over 209 meters.  
   
 What is the average velocity of the potted fern?

16. A miniature elephant travels at 26 m/s to the left for 46 seconds,  
   
 then 34 m/s to the right over 612 meters.  
   
 What is the average velocity of the miniature elephant?

## Section 5: Combined Constant

17. A block of ice travels at 31 m/s to the left for 46 seconds,  
   
 then 23 m/s to the right over 805 meters.  
   
 What is the total distance travelled by the block of ice? What is the net displacement?  
   
 What is the average speed of the block of ice? The average velocity?

18. A priceless artifact travels at 31 m/s to the left for 49 seconds,  
   
 then 42 m/s to the right over 1554 meters.  
   
 What is the total distance travelled by the priceless artifact? What is the net displacement?  
   
 What is the average speed of the priceless artifact? The average velocity?

19. A stunt-seeking daredevil travels at 37 m/s to the right for 13 seconds,  
   
 then 26 m/s to the left for 1248 meters,  
   
 and finally 192 meters to the left in 16 seconds.  
   
 What is the total distance travelled by the stunt-seeking daredevil? What is the net displacement?  
   
 What is the average speed of the stunt-seeking daredevil? The average velocity?

Answer Key - All Versions

## Version 1

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 2

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 3

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 4

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 5

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 6

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 7

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 8

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 9

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,

## Version 10

### Section 1: Constant Speed

1. 2150 m,

2. 28 m/s,

3. 1240 m,

4. 41 m/s,

5. 45 sec,

### Section 2: Distance and Displacement

6. 13 meters, 13 meters, South Say 'None' for zero,

7. 79 meters, 15 meters, North Say 'None' for zero,

8. 411 meters, 325 meters, down Say 'None' for zero,

### Section 3: Average Speed

9. 34.941 m/s,

10. 44.012 m/s,

11. 32.324 m/s,

12. 17.84 m/s,

### Section 4: Average Velocity

13. 7.436 m/s,

14. 25.911 m/s,

15. -21.0 m/s,

16. -9.125 m/s,

### Section 5: Combined Constant

17. 2231 m, -621 m, 27.543 m/s, -7.667 m/s,

18. 3073 m, 35 m, 35.733 m/s, 0.407 m/s,

19. 1921 m, -959 m, 24.948 m/s, -12.455 m/s,