

## Physical Science Motion and Forces Worksheet

1. What is the force on an object that goes from 3.5 m/s to 85 m/s in 20 seconds and has a mass of 148 kg?
2. Calculate the force on an object that has a mass of 12 kg and an acceleration of 4 m/s<sup>2</sup>.
3. During a race, a sprinter increases from 5.0 m/s to 7.5 m/s over a period of 1.25 s. What is the sprinter's average acceleration during this period?
4. A motorcycle has a mass of 250 kg and a velocity of 68 m/s, what is it's momentum?
5. A 3,000-N force acts on a 200-kg object. The acceleration of the object is \_\_\_\_\_.
6. A truck travels to and from a stone quarry that is located 2.5 km to the east. What is its distance? What is its displacement?
7. A cross-country runner runs 10 km in 40 minutes. What is his average speed?
8. A runner went from 6 m/s to 2 m/s in 2 seconds, what was his acceleration?
9. A dog travels 250 meters east in 8 seconds. What is the velocity of the dog?
10. A large truck loaded with scrap steel weighs 14 meters tons and is traveling north on the interstate heading for Chicago. It has been averaging 48 km/h for the journey and has travelled over 1450 km so far. ~~It has just stopped~~ to refuel. What is its current momentum?
11. James rode his bike 0.65 hours and traveled 8.45 km. What was his speed?
12. A 10-kg wagon has a speed of 25 m/s. What is its momentum?
13. A dog travels north for 18 meters, east for 8 meters, south for 27 meters and then west for 8 meters. What is the distance the dog traveled and what is the displacement of the dog?
14. Brittany drove at a speed of 85 km / hr south for 4 hours. How far did she travel?
15. What is the mass of an object that has a force of 89 N and an acceleration of 25 m/s<sup>2</sup>?
16. What is the force acting on an object with a mass of 2489 kg and an acceleration of 6.25 m/s<sup>2</sup>?
17. The driver of a pickup truck drove at a velocity of 75.0 km/hr for 35 minutes. What distance did the bus travel?
18. A high speed train travels with an average speed of 217 km/h. The train travels for 2 h. How far does the train travel?
19. A 300-N force acts on a 25-kg object. The acceleration of the object is \_\_\_\_\_.
20. A 10.0 kg dog chasing a rabbit north at 6.0 m/s has a momentum of \_\_\_\_\_.
21. Newton's first law of motion is also called the law of \_\_\_\_\_.
22. The statement "to every action there is an equal and opposite reaction" is \_\_\_\_\_.
23. The law that states that the unbalanced force acting on an object equals the object's mass times its acceleration is \_\_\_\_\_.
24. Which of the following best illustrates balanced forces? a) a rock falling to the ground b) ~~a stretched rubber band being held between two hands~~ c) a person lifting a heavy box off of the ground d) a crash between a large truck and a train
25. \_\_\_\_\_ forces acting on an object cause the object to accelerate.
26. Sally sits on a rock. Her weight is an action force. Describe its reaction force.
27. Friction is a force that \_\_\_\_\_ motion between two surfaces that are touching each other.
28. At the same speed, a bowling ball is harder to stop than a soccer ball because the bowling ball has greater \_\_\_\_\_.
29. Why is your weight less on the Moon than on Earth, but your mass is the same?
30. The size of the gravitational force between two objects depends on their \_\_\_\_\_ and \_\_\_\_\_.
31. The law that states that every object maintains constant velocity unless acted on by an unbalanced force is \_\_\_\_\_.
32. A tug-of-war that results in one team pulling the other across the line is an example of ~~\_\_\_\_\_ forces~~.
33. 1. An object in motion at a constant velocity will change its motion only if a(n) \_\_\_\_\_ force acts on it.
34. The law that states that for every action force there is an equal and opposite reaction force is \_\_\_\_\_.

# Physical Science Motion And Forces Worksheet Answers

**George Graybill**



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