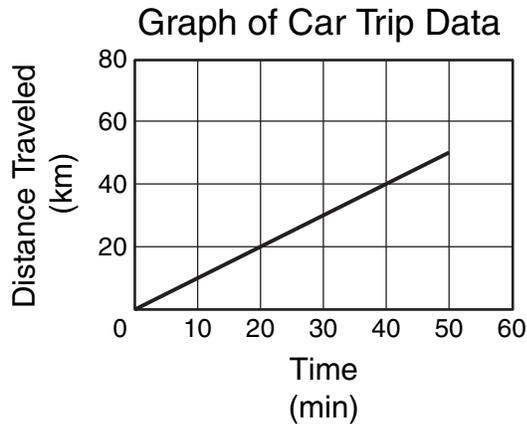


Now It's Your Turn

After you answer the practice questions, you can check your answers to see how you did. If you chose a wrong answer to a question, carefully read the answer explanation to find out why your answer is incorrect. Then read the explanation for the correct answer.

Question 31

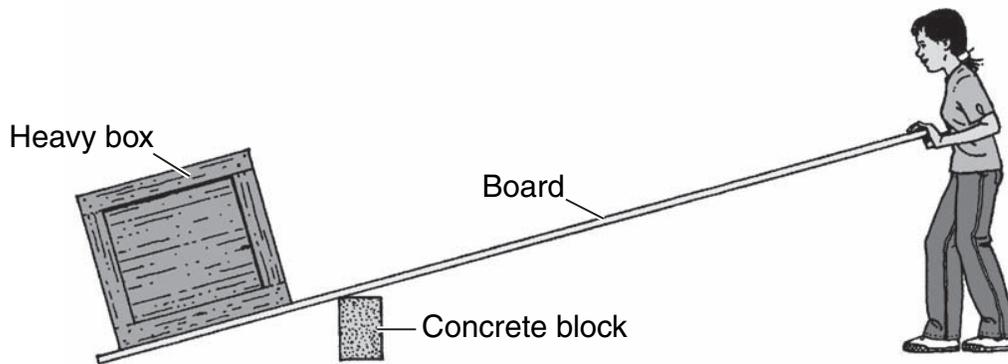
The graph above shows a student's travel time in minutes during a 50 km car trip. What was the car's average speed in kilometers per hour (km/h) during the trip?

- A 45 km/h
- B 50 km/h
- C 54 km/h
- D 60 km/h



Answer Key: page 144

Question 32

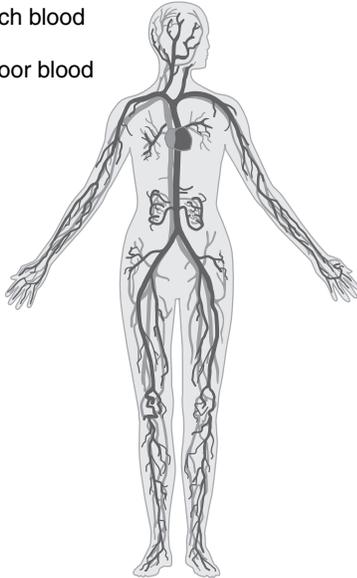


The girl in the picture above is using a lever to lift a heavy box. Using the lever makes the girl's task easier by —

- A reducing the input force
- B reducing the box's mass
- C increasing the amount of work done
- D increasing the distance the box is lifted

Question 33

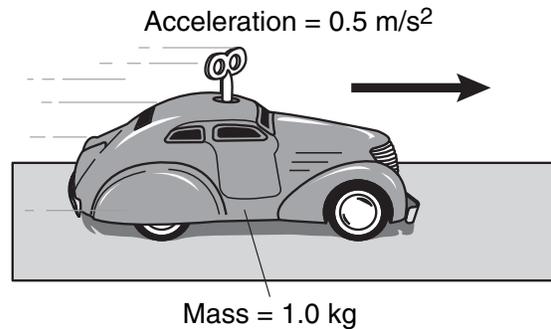
- Oxygen-rich blood
- Oxygen-poor blood



Which activity supplies the force that maintains blood pressure in the human circulatory system?

- A Blood passing through the lungs
- B Blood flowing out to the capillaries
- C The kidneys filtering waste from blood
- D The heart pumping blood through vessels

Question 34

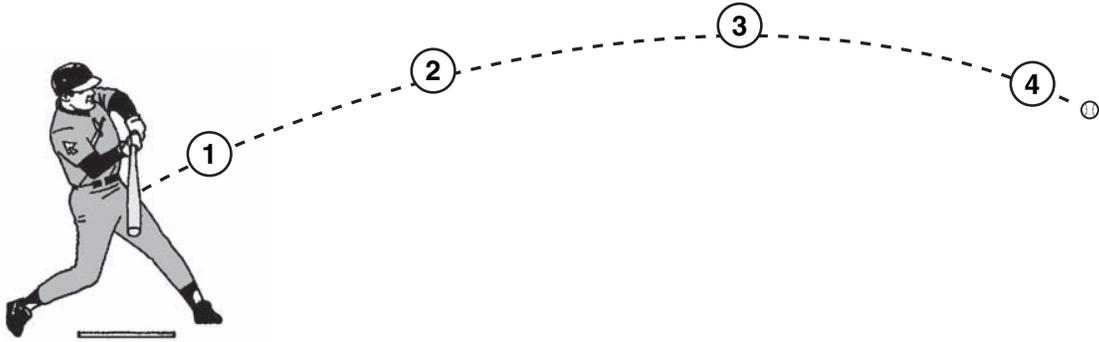


When a toy car is wound up and released on a tile floor, it accelerates as shown in the diagram above. What is the force in newtons that the car's wheels exert on the floor when it is released?

- A 0.05 N
- B 0.5 N
- C 5 N
- D 50 N

Question 35

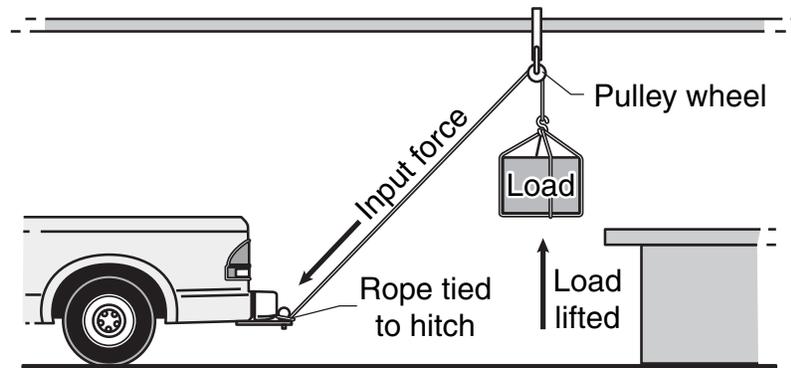
Flight of Baseball



At which point along the baseball's flight path is its potential energy greatest?

- A 1
- B 2
- C 3
- D 4

Question 36



In the diagram shown above, which of the following does the pulley system change?

- A The amount of work done
- B The direction of force used
- C The amount of force used
- D The mass of the load

Question 37

A ball with a mass of 5 kg is accelerating at 2 m/s^2 while being thrown. About how much force was used to throw the ball?

- A 4 N
- B 5 N
- C 10 N
- D 20 N

Question 38

When charcoal burns completely, it starts out as a solid and changes to gases and ash. Which of the following energy transformations occurs when charcoal is burned?

- A Chemical to heat
- B Electrical to light
- C Light to chemical
- D Mechanical to electrical



Answer Key: page 145



Answer Key: page 145