Unit 1 Quiz

| Due No due date | Points 20 | Questions 20 | Time limit None |
|--------------------|-----------|--------------|-----------------|
| Allowed attempts 3 | | | |

Instructions



Before you begin working on this assignment, please read this information:

- Unit quizzes **do** count toward your course grade.
- Double-check your work before submitting the assignment.
- You can save your work and continue later, if you need to.
- The assignment is **open book**—you can refer back to the lesson material to find answers.

Attempt history

| | Attempt | Time | Score |
|--------|-----------|------------|--------------|
| KEPT | Attempt 3 | 13 minutes | 15 out of 20 |
| LATEST | Attempt 3 | 13 minutes | 15 out of 20 |
| | Attempt 2 | 5 minutes | 12 out of 20 |
| | Attempt 1 | 22 minutes | 11 out of 20 |
| | | | |

() Correct answers are hidden.

Score for this attempt: **15** out of 20 Submitted 18 Mar 2019 at 11:05 This attempt took 13 minutes.

Question 1

1 / 1 pts

| What is the a | breviation fo | or centigra | ım? | |
|---------------|---------------|-------------|-----|--|
| ◯ cgm | | | | |
| ◯ ctg | | | | |
| ctgm | | | | |
| ● cg | | | | |
| | | | | |

| Question 2 | 1 / 1 pts |
|----------------------------------|-----------|
| How many kilometers are in 250m? | |
| 25 km | |
| 0.25 km | |
| ○ 250 km | |
| ○ 2.5 km | |

| Question 3 | 1 / 1 pts |
|---|-----------|
| Which of the following is a metric unit for mass? | |
| ◯ slug | |
| kilogram | |
| newton | |

ound

| Question 4 | 1 / 1 pts |
|-------------------------------------|-----------|
| What is the metric prefix for 1/10? | |
| deci | |
|) deka | |
| ⊖ centi | |
|) milli | |

| Question 5 | 1 / 1 pts |
|--|-----------|
| Five dekaliters is equal to how many liters? | |
| 0.5 liters | |
| 0.05 liters | |
| 50 liters | |
| 500 liters | |

The next four questions refer to the following experiment. A student rolls a small ball across a table. It leaves the edge of the table and strikes the floor some distance away from the table. The process is repeated several times, with the student releasing the ball at different speeds to see how much farther away from the table the ball falls.

Incorrect

0 / 1 pts

What must be kept constant throughout this experiment?

weight of the ball

Question 6

speed of the ball

O distance it travels off the table

You have identified one of the experimental variables. As such, it will change in the course of the experiment and should not be kept constant. You may want to go back to the discussion material for lesson 2 and read up on experimental variables.







The next two questions refer to the following scenario: A car enters the freeway at mile marker 110 and leaves the freeway at mile marker 145 exactly 30 minutes later.

| Question 10 | 1 / 1 pts |
|-----------------------------------|-----------|
| What distance did the car travel? | |
| ○ 70 miles | |
| 35 miles | |
| ◯ 145 miles | |
| 110 miles | |

| Question 11 | 1 / 1 pts |
|--|-----------|
| What was the average speed of the car? | |
| 110 mi/h | |
| 145 mi/h | |
| ○ 35 mi/h | |
| 70 mi/h | |

Question 12

1 / 1 pts

| Joe walked 4 meters displacement? | north, then 7 meters south. What was his |
|--------------------------------------|--|
| 3 meters north | |
| 3 meters south | |
| 11 meters south | |
| 11 meters north | |

| Question 13 | 1 / 1 pts |
|--|-------------------|
| Jane traveled from Orem to Ogden (120 miles). She then tr back to Orem. If the time for her round trip was 4 hours, w her average <i>speed</i> ? | aveled hat was |
| 120 mi/h | |
| 30 mi/h | |
| 60 mi/h | |
| O mi/h | |



| 0 4 m | eters | | | |
|-------|-------|--|--|--|
| 0 3 m | eters | | | |

Incorrect

| uestion 15 | 0 / 1 pts |
|---|---|
| hich of the following statements is true? | |
| The slope of a velocity vs. time graph is the displac | ement. |
| The slope of a velocity vs. time graph does not repr displacement. You may want to review the material You can also get more help with velocity- and position the lesson 1 folder in the virtual practice lab. Check and 7. | resent the from lesson 4. on-time graphs in out problems 6 |
| O The slope of a position vs. time graph is the distance | ce. |
| The slope of a velocity vs. time graph is the ending | position. |
| The slope of a position vs. time graph is the velocity | у. |

IncorrectQuestion 160 / 1 ptsA jogger is moving at 3 m/s with a constant velocity. Which of the
following graphs best represents this motion?







Since the dog is walking at 2 m/s, the slope of the graph needs to be 2 m/s. The graph you selected has a slope of 0.5 m/s. You may want to review the material from lesson 4. You can also get more help with velocity- and position-time graphs in the lesson 1 folder in the virtual practice lab. Check out problems 6 and 7.

 Question 18
 1/1 pts

 A car is traveling on the highway at 20 m/s when a deer jumps out on the road. The driver hits the brakes and comes to a stop in 4 seconds. What is the acceleration?

 -5 m/s²
 -20 m/s²
 5 m/s²
 20 m/s²

Question 191 / 1 ptsA rock is dropped from the top of a building. After 4 seconds it is
moving at 40 m/s. What was the acceleration of the rock?

| 10 m/s² | | | |
|-----------|--|--|--|
| ○ 40 m/s² | | | |
| 0 4 m/s² | | | |
| ○ 44 m/s² | | | |
| | | | |



Quiz score: 15 out of 20