

Question

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1. Question Details

OSColPhysAP2016 1.2.P.001. [3604307]

The speed limit on some interstate highways is roughly 110 km/h.

(a) What is this in meters per second?

  30.6 m/s

(b) How many miles per hour is this?

  68.4 mi/h

2. Question Details

OSColPhysAP2016 1.2.P.002. [3604320]

A car is traveling at a speed of 43 m/s.

(a) What is its speed in kilometers per hour?

  155 km/h

(b) Is it exceeding the 85 km/h speed limit?

☒ Yes

☐ No

3. Question Details

OSColPhysAP2016 1.2.P.004. [3604418]

American football is played on a 100 yd long field, excluding the end zones. How long is the field in meters? (Assume that 1 meter equals 3.281 feet.)

  91.4 m

†

4. Question Details

OSColPhysAP2016 1.2.P.006. [3604328]

What is the height in meters of a person who is 7 ft 6.0 in. tall? (Assume that 1 meter equals 39.37 in.)

  2.29 m

†

5. Question Details

OSColPhysAP2016 1.2.P.007. [3604197]

Mount Everest, at 29028 feet, is the tallest mountain on the Earth. What is its height in kilometers? (Assume that 1 kilometer equals 3,281 feet.)

  8.85 km

†

6. Question Details

OSColPhysAP2016 1.3.P.022. [3604346]

What is the area of a circle 3.294 cm in diameter? (Express your answer to the correct number of significant figures and proper units.)

Value 8.52191250646156 ---Select--- cm^2

†

7. Question Details

OSColPhysAP2016 1.3.WA.009. [3569824]

An infant's pulse rate is measured to be 151 ± 5 beats per minute. What is the percent uncertainty in this measurement? (Note that percent uncertainties should be reported to two significant figures.)

3.31 %

8. Question Details

OSColPhysAP2016 1.3.WA.013. [3569909]

State the number of significant figures in each of the following.

(a) 50 (This is a measurement rather than a count.)

1

(b) 7.5×10^4

2

(c) 7.50×10^4

3

(d) 5.07×10^4

3

(e) 5.070×10^4

4

(f) 0.0075

2

(g) 0.057

2

(h) 0.0705

3

9. Question Details

OSColPhysAP2016 1.3.WA.018. [3569911]

Below is the calculator result for the operation indicated. Enter the answer to the correct number of significant figures for this calculation, using the rules for significant figures.

$$\frac{157.8}{2.541817} = 62.081573929201$$

62.1

Assignment Details

Name (AID): WA 1: Intro to Measurement (14650031)

Submissions Allowed: 3

Category: Homework

Code:

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Question Score

Assignment Score

Locked: **Yes**
Author: **Rawson, Alex** (arawson@wwsu.org)
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