AP Physics 1 Multiple Choice Questions - Chapter 1

1 Convert 3.8 miles to meters. **1.1**

a 6115 m
b 8255 m
c 20064 m
d 9587 m
e 65829 m

2 Convert 3.55 kilometers to feet **1.1**

a 22500 ft
b 0.035 ft
c 11650 ft
d 15280 ft
e 3550 ft

3 What is the mass in grams of a 5.0 grain aspirin tablet, given the following Apothecaries' Weight System: 60 grains = 1 dram and 96 drams = 1 lb and 454 g = 1 lb on Earth's surface **1.1**

a 43 g
b 38 g
c 1.4 g
d 0.39 g

4 The conversion from degrees Celsius to Kelvin is attained by _____ nearly _____ to the degrees Celsius **1.1**

a adding, 263
b subtracting, 273
c adding, 273
d subtracting, 263
e None of the above

5 A conversion factor **1.1**

a Is a ratio of equivalent measurements
b Is equal to one
c Does not change the value of the measurement
d All of the above
e None of the above

6 Which pair consists of equalities? **1.1**

a -117°C, -179°F
b -117°C, 390K
c -32°C, 0°F
d 0°F, 243K

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1 Which of these is closest to the thickness of a piece of paper, in meters?

a 10^{0} **b** 10^{-1}

c 10^{-2} **d** 10^{-3}

1.2

2 Which of these is closest to the speed of light, in meters per second?

a 10^{6} **b** 10^{8}

c 10^{7} **d** 10^{9}

1.2

3 Which of the following is closest to the distance of one mile in meters?

a 10^{2} **b** 10^{4}

c 10^{3} **d** 10^{5}

1.2

4 Which of the following is closest to the distance from Boyceville to Menomonie in miles?

a 10^{1} **b** 10^{0}

c 10^{2} **d** 10^{3}

1.2

AP Physics 1 Multiple Choice Questions - Chapter 1

1 If a side of a right triangle is 15 m and the angle adjacent to that side is 50°, how long is the hypotenuse?

1.3

a 9.64 m
b 11.49 m
c 19.58 m
d 23.34 m
e None of the above

2 If the side of a right triangle is 10.5 m and the angle opposite to that side is 40°, how long is the adjacent side?

1.3

a 8.81 m
b 16.4 m
c 7.23 m
d 12.5 m
e None of the above

3 If the hypotenuse of a right triangle is 13.5 m, one side is 9.5 m, and the angle between these the hypotenuse and this side is 35°, what is the length of the other side?

1.3

a 7.8 m
b 10.3 m
c 2.3 m
d 9.6 m
e None of the above