Name: _____ Date: _____

Dimensional Analysis - Medium

Convert each measurement. Round to the nearest hundredth if needed. (1 yd = 3 ft, 1 ft = 12 in, 1 mi = 5280 ft, 1 gal = 4 qt, 1 qt = 2 pt = 4 c, 1 lb = 16 oz, 1 ton = 2000 lb, 1 in = 2.54 cm, 1 mi ≈ 1.61 km, 1 kg ≈ 2.2 lb, 1 L ≈ 1.06 qt, 1 gal ≈ 3.79 L)

1. 50 in = _____ cm
2. 15 m ≈ _____ ft
3. 6 weeks = _____ hr
4. 3 gal = _____ c
5. 7 km ≈ _____ mi
6. 4 weeks = _____ hr
7. 8 weeks = _____ hr
8. 6 mi = _____ in
9. 7 gal = _____ pt
10. 6 gal = _____ c

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Dimensional Analysis - Medium

Convert each measurement. Round to the nearest hundredth if needed. (1 yd = 3 ft, 1 ft = 12 in, 1 mi = 5280 ft, 1 gal = 4 qt, 1 qt = 2 pt = 4 c, 1 lb = 16 oz, 1 ton = 2000 lb, 1 in = 2.54 cm, 1 mi ≈ 1.61 km, 1 kg ≈ 2.2 lb, 1 L ≈ 1.06 qt, 1 gal ≈ 3.79 L)

11. 60 in = _____ cm

12. 9 in = _____ cm

13. 5 gal = _____ pt

14. 20 km ≈ _____ mi

15. 9 hr = _____ s

16. 45 lb ≈ _____ kg

17. 16 mi ≈ _____ km

18. 7 hr = _____ s

19. 2 m ≈ _____ ft

20. 3 days = _____ min

Dimensional Analysis - Medium - Answer Key

1. 50 in = _____ cm
   127 cm

2. 15 m ≈ _____ ft
   49.21 ft

3. 6 weeks = _____ hr
   1,008 hr

4. 3 gal = _____ c
   48 c

5. 7 km ≈ _____ mi
   4.35 mi

6. 4 weeks = _____ hr
   672 hr

7. 8 weeks = _____ hr
   1,344 hr

8. 6 mi = _____ in
   380,160 in

9. 7 gal = _____ pt
   56 pt

10. 6 gal = _____ c
    96 c

Dimensional Analysis - Medium - Answer Key

11. 60 in = _____ cm
    152.4 cm

12. 9 in = _____ cm
    22.86 cm

13. 5 gal = _____ pt
    40 pt

14. 20 km ≈ _____ mi
    12.42 mi

15. 9 hr = _____ s
    32,400 s

16. 45 lb ≈ _____ kg
    20.45 kg

17. 16 mi ≈ _____ km
    25.76 km

18. 7 hr = _____ s
    25,200 s

19. 2 m ≈ _____ ft
    6.56 ft

20. 3 days = _____ min
    4,320 min