Secondary Math 1 HONORS   Period: _____   Name: **KEY**

Unit 1.11 Ratios, Rates and Conversions

Use these conversions to complete the worksheet.

1 m = 3.28 ft	1 in = 2.54 cm	1 liter = 1.06 qt	1 yd = 91.44 cm
1 pound = 453.6 grams	1 m = 100 cm	1 km = 100,000 cm	1 mi = 5,280 ft
1 gal = 4 qt	1 day = 24 hrs	1 hr = 60 min	1 min = 60 sec
1 pound = 16 ounces	1 yard = 3 feet	1 kl = 1,000 L	1 km = 1,000 m

Convert the given amount to the given unit.

1) 13 days; hours   312 Hours

2) 70 ft; yd $23\frac{1}{3}$ yd

3) 200 meters; cm 20,000 cm

4) 6 hr; min 360 min

5) 14 meters; ft   45.92 ft

6) 12 in.; cm 30.48 cm

7) 7 liters; qt   7.42 qt

8) 2000 cm; yd 21.87 yd

9) 17 pounds; grams 7711.2 grams

10) 29 km; cm   2,900,000 cm

11) 7 mi; ft 36,960 ft

12. 120 min; s 7,200 s

13.   A builder measures the perimeter of a building to be 530 ft. He must
order wood beams to install around the perimeter of the building. Wood must
be ordered in meters. How many meters of wood should the builder order?

   161.6 m or 162 m of wood

14. Mrs. Jacobsen purchased a 5-pound package of ground beef for $12.40. She
decided to use 8 ounces each day for dinner recipes. What was the cost of
ground beef per meal?

   $1.24 per meal

15. Car 1 drove 408 miles in 6 hours and Car 2 drove 365 miles in 5 hours during
the cross-country road race. Who had the fastest average speed?

   Car 1 = 68 mph   Car 2 = 73 mph,   so Car 2 fastest average speed

Complete each statement.

16. 25 mi/hr = 670.7   m/min

17. 32 mi/gal = 13.65 km/L

18. 10 m/s = 32.8   ft/s

19. 14 gal/s = 3,360   qt/min

20. 3.5 days = 5,040   min

21. 100 yd = 90   m

22. 15 dollars/hr = 25   cents/min

23. 5 L/s = 0.3   kL/min

24. 62 in. = 1.5748   m

25. 7 days = 604,800   s