Problem set - Metric measurements

| Name: | Date: |
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| use a calculator and notes. There are ten millimeters in one centimeter | s 1 through 11. Show all of your work. You may, and one hundred centimeters one meter. One |
| kilometer is one thousand meters. | |
| 1. How many centimeters is 155mm? | |
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| 2. How many meters is 1280cm? | |
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| 3. How many centimeters is 1.2m? | |
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| 4. How many meters is 14km? | |
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| 5. How many millimeters is one meter? | |
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| 6. How many centimeters is 3.12km? | |
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One liter is 1000 milliliters. Sixty seconds is one minute. Sixty minutes is one hour.

- 7. How many milliliters is a quarter liter?
- 8. How many seconds is 75 minutes?
- 9. How long does it take a pump with a rated capacity of 0.4 liters per minute to empty a 500l tank?
- 10. How many kilometers per hour is three meters per second?
- 11. How many meters per second is twenty-five kilometers per hour?

Temperatures in Celsius and Fahrenheit are related by the formulas

$$C = \frac{5}{9}(F - 32)$$

and

$$F = \frac{9}{5}C + 32$$

- 12. If the temperature is 48°F, what is the temperature in Celsius?
- 13. If the temperature is 10°C, what is the temperature in Fahrenheit?