

Name: \_\_\_\_\_

Date: \_\_\_\_\_

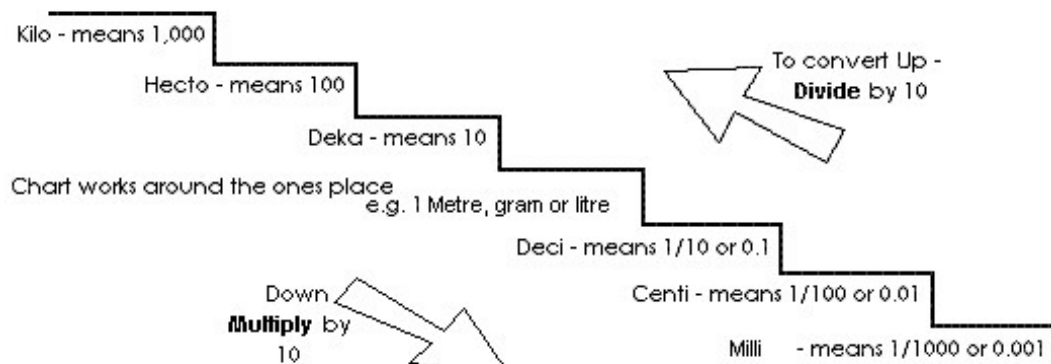
MFM 2P1

**CONVERSION TABLES****IMPERIAL TO IMPERIAL CONVERSION**

| <b>LENGTH</b>                   | <b>MASS</b>                     | <b>VOLUME</b>                                                                 |
|---------------------------------|---------------------------------|-------------------------------------------------------------------------------|
| 1 ft (foot) = 12 in (inches)    | 1 lb (pound) = 16 oz (ounces)   | 1 gal (gallon) = 4 qt (quart)<br>= 8 pt (pints)<br>= 128 fl oz (fluid ounces) |
| 1 yd. (yard) = 3 ft (feet)      | 1 T (Tonne) = 2000 lbs (pounds) | 1 qt (quart) = 2 pt (pints)                                                   |
| 1 mi (miles) = 1 760 yd (yards) |                                 | 1 pint (pt) = 16 fl oz (fluid ounces)                                         |
|                                 |                                 | 1 c (cup) = 8 fl oz (fluid ounces)                                            |

**IMPERIAL TO METRIC / METRIC TO IMPERIAL CONVERSION**

| <b>Imperial to Metric Conversion Factors</b> |                                           |                                                      |
|----------------------------------------------|-------------------------------------------|------------------------------------------------------|
| <b>Length</b>                                | <b>Area</b>                               | <b>Volume</b>                                        |
| 1 in. = 25.4 mm or 2.54 cm                   | 1 in. <sup>2</sup> = 6.45 cm <sup>2</sup> | 1 in. <sup>3</sup> = 16.39 cm <sup>3</sup>           |
| 1 ft = 0.3048 m                              | 1 ft <sup>2</sup> = 0.0929 m <sup>2</sup> | 1 ft <sup>3</sup> = 28.32 dm <sup>3</sup> or 28.32 L |
| 1 yd = 0.9144 m                              | 1 yd <sup>2</sup> = 0.84 m <sup>2</sup>   | 1 yd <sup>3</sup> = 0.76 m <sup>3</sup>              |
| 1 mi = 1.609 km                              | 1 acre = 4047 m <sup>2</sup>              |                                                      |
| <b>Capacity</b>                              | <b>Mass</b>                               | <b>Speed</b>                                         |
| 1 fl oz = 29.6 mL                            | 1 oz = 28.35 g                            | 1 m.p.h. = 1.609 km/h                                |
| 1 qt = 0.947 L                               | 1 lb = 0.454 kg                           |                                                      |
| (U.S.) 1 gal = 3.785 L                       | 1 T = 0.91 t                              |                                                      |

**METRIC TO METRIC CONVERSION**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

MFM 2P1

### **TEMPERATURE**

$$^{\circ}\text{F (Fahrenheit)} = [^{\circ}\text{C (Celsius)} \times 1.8] + 32$$

$$^{\circ}\text{C (Celsius)} = [^{\circ}\text{F (Fahrenheit)} - 32] \div 1.8$$



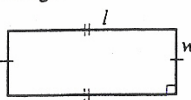
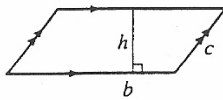
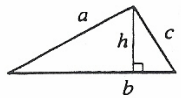
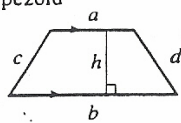
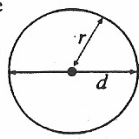
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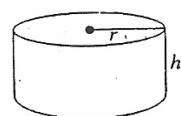
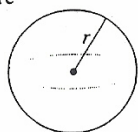
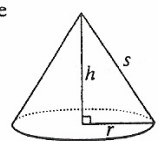
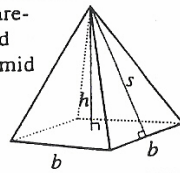
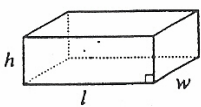
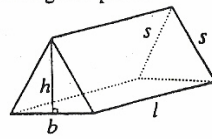
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MFM 2P1

# Formula Sheet

Refer to this sheet for mathematical formulas throughout the Field Test.

| Geometric Figure                                                                                  | Perimeter                   | Area/Surface Area        |
|---------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|
| Rectangle<br>    | $P = 2(l + w)$              | $A = lw$                 |
| Parallelogram<br> | $P = 2(b + c)$              | $A = bh$                 |
| Triangle<br>     | $P = a + b + c$             | $A = \frac{bh}{2}$       |
| Trapezoid<br>  | $P = a + b + c + d$         | $A = \frac{(a + b)h}{2}$ |
| Circle<br>     | $C = \pi d$<br>$C = 2\pi r$ | $A = \pi r^2$            |

| Geometric Figure                                                                                             | Area/Surface Area         | Volume                    |
|--------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Cylinder<br>              | $SA = 2\pi r^2 + 2\pi rh$ | $V = \pi r^2 h$           |
| Sphere<br>                | $SA = 4\pi r^2$           | $V = \frac{4\pi r^3}{3}$  |
| Cone<br>                  | $SA = \pi rs + \pi r^2$   | $V = \frac{\pi r^2 h}{3}$ |
| Square-based pyramid<br> | $SA = 2bs + b^2$          | $V = \frac{b^2 h}{3}$     |
| Rectangular prism<br>   | $SA = 2wh + 2lw + 2lh$    | $V = lwh$                 |
| Triangular prism<br>    | $SA = 2sl + bl + bh$      | $V = \frac{bhl}{2}$       |