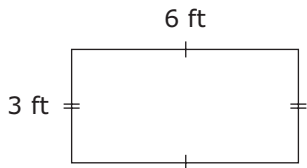
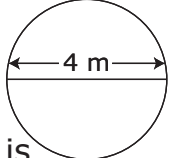
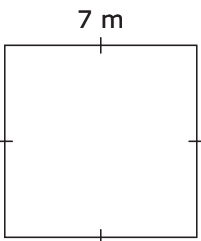
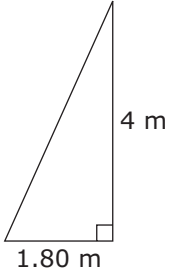
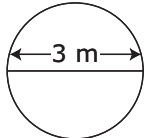


Formulas

Item	Hint	Example
Perimeter		
Of an item with straight sides	<ul style="list-style-type: none"> • Add the lengths of all of the sides. 	<div style="text-align: center;">  </div> <p> $6 + 3 + 6 + 3 = 18$ The perimeter is 18 ft. </p>
Of a circle (The perimeter of a circle is also called the circumference.)	<ul style="list-style-type: none"> • Multiply the diameter by 3.14. 	<p>The diameter is 4 m.</p> <div style="text-align: center;">  </div> <p> $4 \times 3.14 = 12.56$ The circumference is approximately 12.6 m. </p>
Area		
Of a rectangle or square	<ul style="list-style-type: none"> • Multiply the length by the width. • The answer will be in square units. The answer here is 49 square metres or 49 m². 	<p> length = 7 m width = 7 m $7 \times 7 = 49$ The area is 49 m². </p> <div style="text-align: center;">  </div>
Of a triangle	<ul style="list-style-type: none"> • Multiply the base by the height. • Divide the answer by 2. • Show the answer in square units. 	<p> base = 1.80 m height = 4 m $1.80 \times 4 = 7.2$ $7.2 \div 2 = 3.6$ The area is 3.6 m². </p> <div style="text-align: center;">  </div>
Of a circle	<ul style="list-style-type: none"> • Square the radius. • Multiply by 3.14. • Show the answer in square units. 	<p>The diameter is 3 m.</p> <p>The radius is half the diameter, or 1.5 m.</p> <p> $1.5 \times 1.5 = 2.25$ $2.25 \times 3.14 = 7.065$ The area is approximately 7.1 m². </p> <div style="text-align: center;">  </div>

Conversion Tables

Metric Length

mm → cm → m → km

10 mm = 1 cm

100 cm = 1 m

1000 m = 1 km

Metric	Imperial
1 mm	0.0393 in.
1 cm	0.393 in.
1 m	3.28 ft
1 km	0.621 mi $\frac{5}{8}$ mi

Metric Capacity

mL → L

1 mL = 1 cc

1000 mL = 1 L

Metric	Imperial
1 mL	0.034 oz
1 L	33.81 oz
1 L	4.23 cups
1 L	2.11 pints
1 L	1.07 quarts
1 L	0.26 gallon

Metric Weight

mg → g → kg → tonne

1000 mg = 1 g

100 g = 1 kg

1000 kg = 1 tonne (or 1 metric ton)

Metric	Imperial
1 g	0.0353 oz
1 kg	2.2046 lb

Imperial Length

inch → foot → yard → mile

12 in. = 1 ft

3 ft = 1 yd

36 in. = 1 yd

5280 ft = 1 mi

1760 yd = 1 mi

Imperial	Metric
1 in.	25.4 mm
1 in.	2.54 cm
1 ft	30.48 cm 0.305 m
1 mi	1.609 km $\frac{8}{5}$ km

Imperial Capacity (United States)

ounce → cup → pint → quart → gallon

8 oz = 1 cup

2 cups = 1 pint

32 oz = 1 quart

2 pints = 1 quart

4 quarts = 1 gallon

Imperial	Metric
1 oz	29.57 mL
1 cup	236.56 mL
1 pint	473.12 mL
1 quart	0.95 L
1 gallon	3.79 L

Imperial Weight (United States)

ounce → pound → ton

16 oz = 1 lb

2000 lb = 1 T

Metric	Imperial
1 oz	28.35 g
1 lb	0.4536 kg

Note that 1 metric ton does not equal 1 Imperial ton!