

To produce rulers that are consistent with those printed on the state-supplied mathematics reference materials, follow these steps:

1. Set the print menu to print the pages at 100% by selecting "None" under the Page Scaling option.
2. Print on paper that is wider than 8 ½ inches, such as 11 by 17 inch paper.
3. Trim the paper to 8 ½ by 11 inches so that the rulers will be on the edge of the paper.

BOY ASSESSMENT GRADE 7 MATHEMATICS STANDARDS REFERENCE MATERIALS

LINEAR EQUATIONS

Slope-intercept form $y = mx + b$

Constant of proportionality $k = \frac{y}{x}$

CIRCUMFERENCE

Circle $C = 2\pi r$ or $C = \pi d$

AREA

Triangle $A = \frac{1}{2}bh$

Rectangle or parallelogram $A = bh$

Trapezoid $A = \frac{1}{2}(b_1 + b_2)h$

Circle $A = \pi r^2$

VOLUME

Prism $V = Bh$

Pyramid $V = \frac{1}{3}Bh$

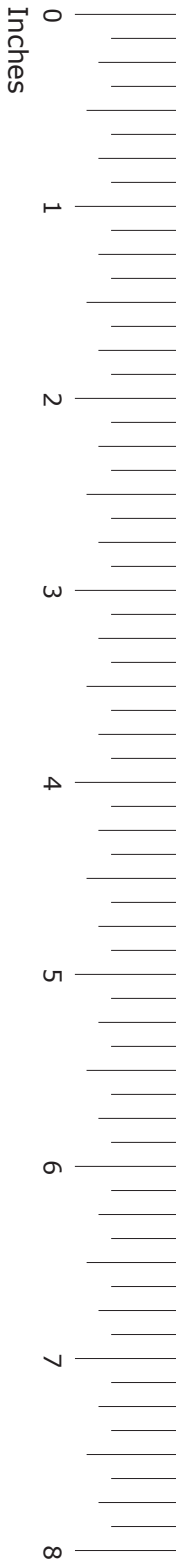
ADDITIONAL INFORMATION

Pi $\pi \approx 3.14$ or $\pi \approx \frac{22}{7}$

Distance $d = rt$

Simple interest $I = Prt$

Compound interest $A = P(1 + r)^t$



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LENGTH

Customary

1 mile (mi) = 1,760 yards (yd)

1 yard (yd) = 3 feet (ft)

1 foot (ft) = 12 inches (in.)

Metric

1 kilometer (km) = 1,000 meters (m)

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

VOLUME AND CAPACITY

Customary

1 gallon (gal) = 4 quarts (qt)

1 quart (qt) = 2 pints (pt)

1 pint (pt) = 2 cups (c)

1 cup (c) = 8 fluid ounces (fl oz)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 ton (T) = 2,000 pounds (lb)

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

Centimeters