STAAR GRADE 7 MATHEMATICS REFERENCE MATERIALS



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| 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

16

15

14

6

9

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 (floz)

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)