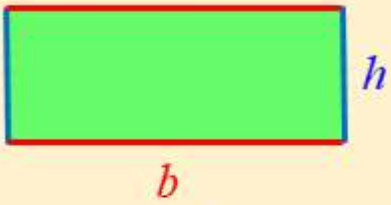
Tutopiya PSLE Math Formula Cheat sheet

Prepared by Tutopiya

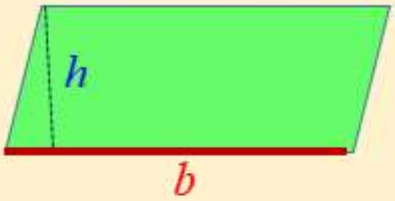
Area

rectangle



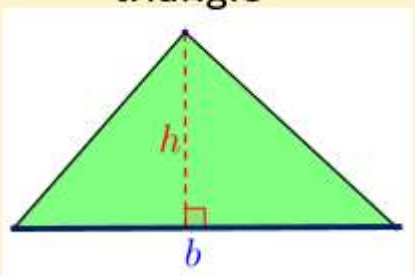
$$A = bh$$

parallelogram



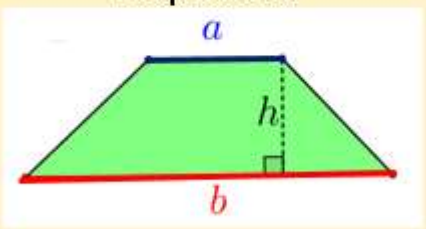
$$A = bh$$

triangle



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

trapezoid

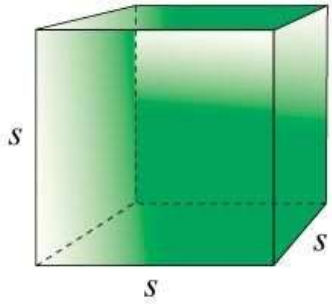


$$A = \frac{1}{2}(a+b)h$$

VOLUME

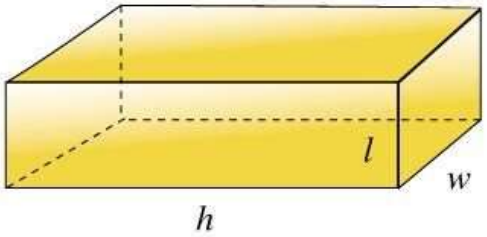
Formulas

CUBE



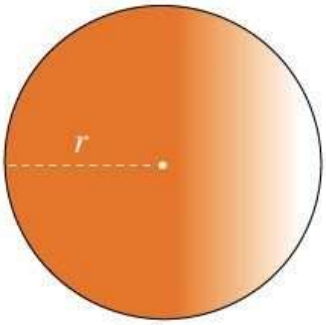
$$V = s^3$$

RECTANGULAR PRISM



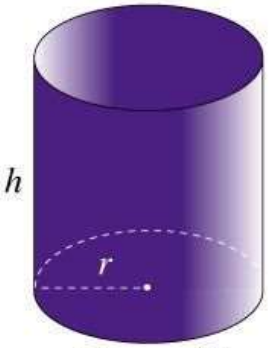
$$V = lwh \text{ or } V = Bh$$

SPHERE



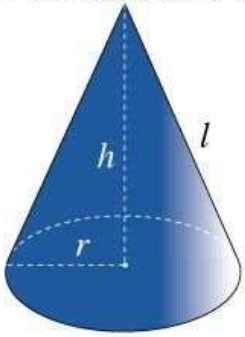
$$V = \frac{4}{3}\pi r^3$$

RIGHT CIRCULAR CYLINDER



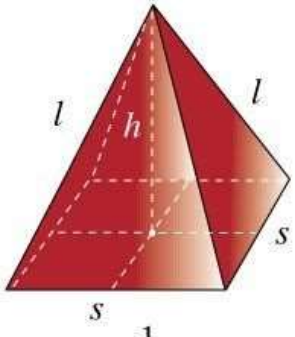
$$V = \pi^2 h$$

RIGHT CIRCULAR CONE



$$V = \frac{1}{3}\pi r^2 h$$

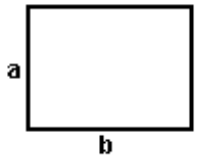
RIGHT SQUARE PYRAMID



$$V = \frac{1}{3}s^2 h$$

Area and Perimeter Formulas

Rectangle

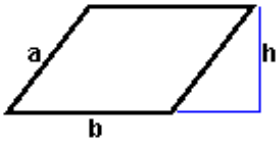


A Rectangle is a quadrilateral with four equal angles at 90°.

Area = ab

Perimeter = 2(a + b)

Parallelogram

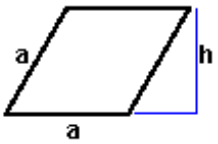


A Parallelogram is a quadrilateral with opposite sides parallel.

Area = bh

Perimeter = 2(a + b)

Rhombus

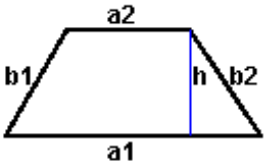


A Rhombus is a Parallelogram with all sides equal.

Area = ah

Perimeter = 4a

Trapezoid

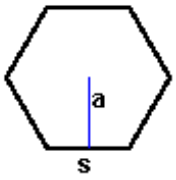


A Trapezoid is a Quadrilateral with at least one pair of parallel sides.

Area = $\frac{a1 + a2}{2} h$

Perimeter = a1 + a2 + b1 + b2

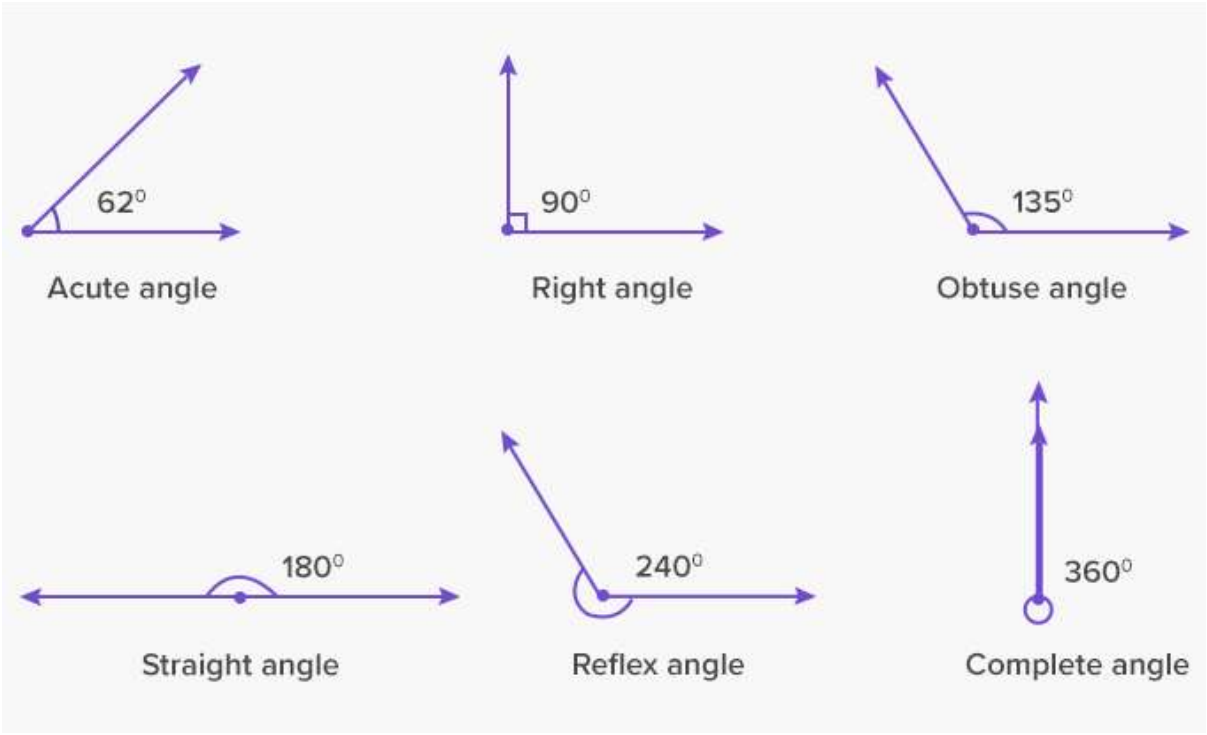
Regular n-gon

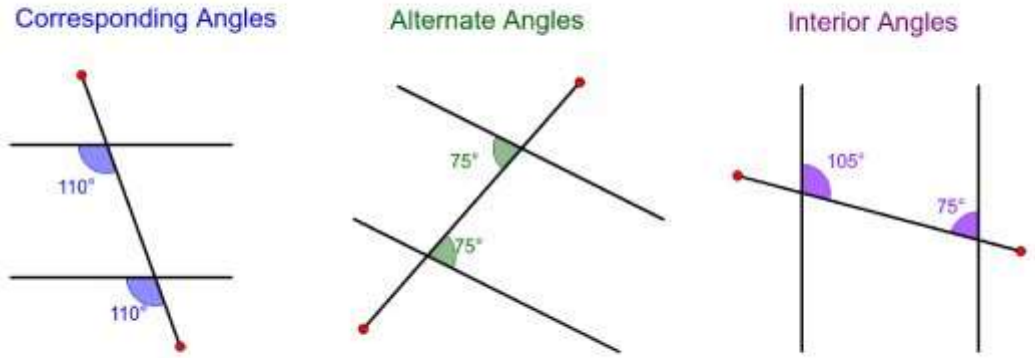


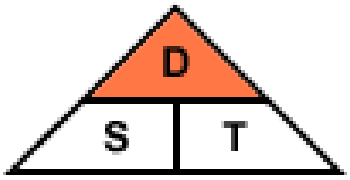
A Regular Polygon is a polygon for which n sides and angles are equal.

Area = $\frac{1}{2}(a\ n\ s)$

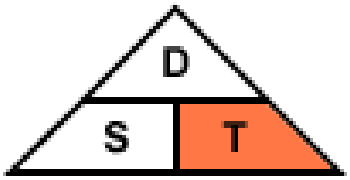
Perimeter = n s


62°
Acute angle
90°
Right angle
135°
Obtuse angle
180°
Straight angle
240°
Reflex angle
360°
Complete angle

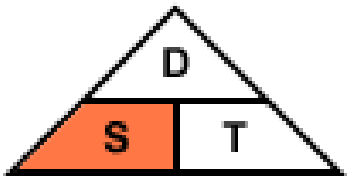

Corresponding Angles
110°
110°
Alternate Angles
75°
75°
Interior Angles
105°
75°



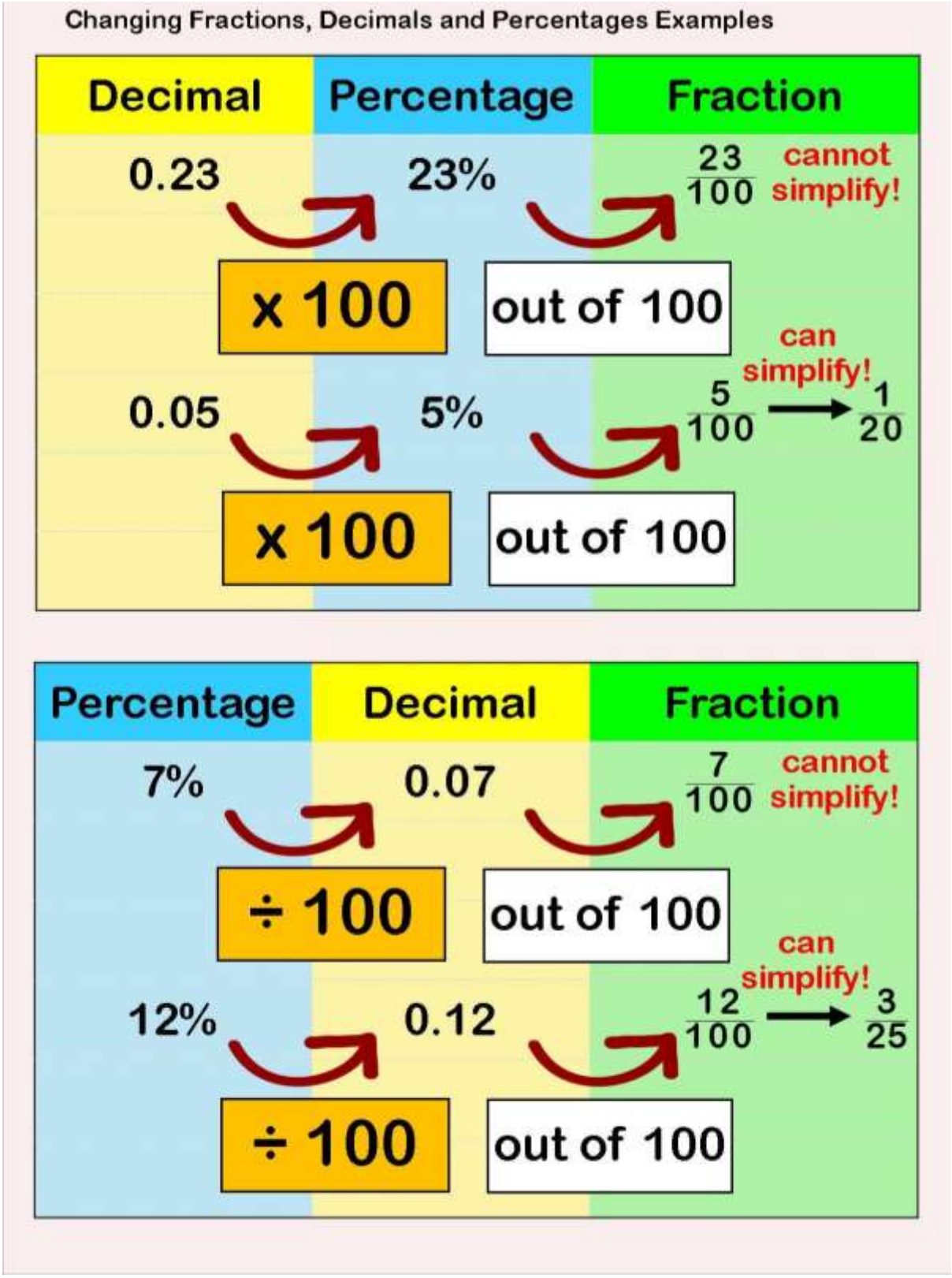
Distance = Speed x Time



$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$



$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$


Changing Fractions, Decimals and Percentages Examples
Decimal
Percentage
Fraction
0.23
23%
23/100 cannot simplify!
x 100
out of 100
0.05
5%
5/100 can simplify! 1/20
x 100
out of 100
Percentage
Decimal
Fraction
7%
0.07
7/100 cannot simplify!
÷ 100
out of 100
12%
0.12
12/100 can simplify! 3/25
÷ 100
out of 100