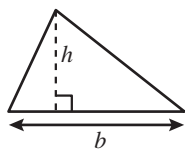


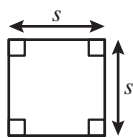
Grade 8 Mathematics Formula Sheet

2016 Mathematics Standards of Learning

Geometric Formulas

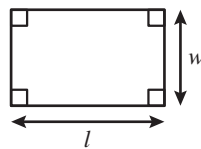


$$A = \frac{1}{2}bh$$



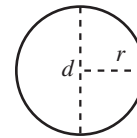
$$p = 4s$$

$$A = s^2$$



$$p = 2l + 2w$$

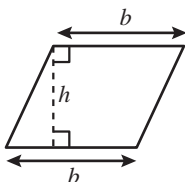
$$A = lw$$



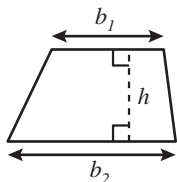
$$C = 2\pi r$$

$$C = \pi d$$

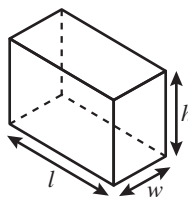
$$A = \pi r^2$$



$$A = bh$$

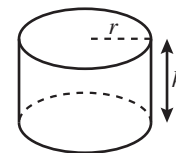


$$A = \frac{1}{2}h(b_1 + b_2)$$



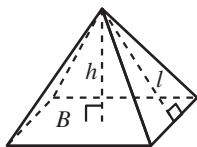
$$V = lwh$$

$$S.A. = 2lw + 2lh + 2wh$$



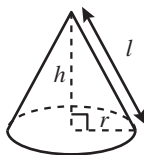
$$V = \pi r^2 h$$

$$S.A. = 2\pi r^2 + 2\pi rh$$



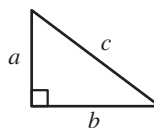
$$V = \frac{1}{3}Bh$$

$$S.A. = \frac{1}{2}lp + B$$



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

$$S.A. = \pi r^2 + \pi rl$$



$$a^2 + b^2 = c^2$$

Pi

$$\pi \approx 3.14$$

$$\pi \approx \frac{22}{7}$$

Abbreviations

| | |
|-------------------|-----------------|
| milligram | mg |
| gram | g |
| kilogram | kg |
| milliliter | mL |
| liter | L |
| kiloliter | kL |
| millimeter | mm |
| centimeter | cm |
| meter | m |
| kilometer | km |
| square centimeter | cm ² |
| cubic centimeter | cm ³ |

| | |
|-------------|--------|
| ounce | oz |
| pound | lb |
| quart | qt |
| gallon | gal. |
| inch | in. |
| foot | ft |
| yard | yd |
| mile | mi. |
| square inch | sq in. |
| square foot | sq ft |
| cubic inch | cu in. |
| cubic foot | cu ft |

| | |
|---------------|------|
| Area | A |
| Area of Base | B |
| Circumference | C |
| Perimeter | p |
| Surface Area | S.A. |
| Volume | V |