

STAAR GRADE 8 MATHEMATICS REFERENCE MATERIALS



LINEAR EQUATIONS

| | |
|----------------------|--------------|
| Slope-intercept form | $y = mx + b$ |
|----------------------|--------------|

| | |
|------------------|----------|
| Direct variation | $y = kx$ |
|------------------|----------|

| | |
|-----------------|-----------------------------------|
| Slope of a line | $m = \frac{y_2 - y_1}{x_2 - x_1}$ |
|-----------------|-----------------------------------|

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 | $A = \pi r^2$ |
|--------|---------------|

SURFACE AREA

| | Lateral | Total |
|----------|---------------|--------------------------|
| Prism | $S = Ph$ | $S = Ph + 2B$ |
| Cylinder | $S = 2\pi rh$ | $S = 2\pi rh + 2\pi r^2$ |

VOLUME

| | |
|-------------------|----------|
| Prism or cylinder | $V = Bh$ |
|-------------------|----------|

| | |
|-----------------|---------------------|
| Pyramid or cone | $V = \frac{1}{3}Bh$ |
|-----------------|---------------------|

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

ADDITIONAL INFORMATION

| | |
|---------------------|-------------------|
| Pythagorean theorem | $a^2 + b^2 = c^2$ |
|---------------------|-------------------|

| | |
|-----------------|-----------|
| Simple interest | $I = Prt$ |
|-----------------|-----------|

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



Starr 8th Grade Math Study Guide

Reza Nazari, Ava Ross



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