

SheetFormR Math Mode — Grade 6

CCSS Domains: 6.RP | 6.NS | 6.EE | 6.G | 6.SP

How to use:

Step 1: Add a column named Equation (or Math, Formula, EQ, LaTeX) to your spreadsheet.
 Step 2: Type your equation using the notation below. Step 3: Enable Render Math Equations in Build Options.
 Step 4: Build your form — equations appear as crisp, professional images! No codes needed.

Notation: * = multiply ^ = exponent / = fraction |x| = absolute value >= <= = inequalities () = grouping

Mixed Numbers: Type a SPACE between the whole number and fraction. $2 \frac{1}{3}$ = mixed number. $\frac{21}{3}$ = twenty-one thirds.

Quick Start: You type: $2/3 / 4/5$ -> Students see: [a stacked fraction division image](#)

Ratios & Proportional Relationships (6.RP) -- SBAC Priority

| Standard | What You Want | Type in Equation Column | Students See (rendered image) |
|-----------|-------------------|-------------------------|-------------------------------|
| ★ 6.RP.1 | Ratio | $3/4$ | 3 over 4 (ratio) |
| ★ 6.RP.2 | Unit rate | $120/5$ | 120 over 5 |
| ★ 6.RP.3a | Equivalent ratios | $2/3 = 8/12$ | $2/3 = 8/12$ |
| ★ 6.RP.3c | Percent | $75/100$ | 75 over 100 |
| ★ 6.RP.3c | Percent of number | $0.25 * 80$ | 0.25×80 |
| ★ 6.RP.3d | Unit conversion | $5280/3$ | 5280 over 3 |

The Number System (6.NS) -- SBAC Priority

| Standard | What You Want | Type in Equation Column | Students See (rendered image) |
|-----------|--------------------|-------------------------------|-------------------------------|
| ★ 6.NS.1 | Divide fractions | $2/3 / 4/5$ | $2/3 / 4/5$ |
| ★ 6.NS.1 | Mixed by fraction | $2 \frac{1}{2} / \frac{1}{4}$ | $2 \frac{1}{2} / \frac{1}{4}$ |
| ★ 6.NS.2 | Multi-digit divide | $2,688/42$ | $2,688 / 42$ |
| ★ 6.NS.3 | Decimal operations | $5.4 * 3.2$ | 5.4×3.2 |
| ★ 6.NS.4 | GCF | $24 = 8 * 3$ | GCF factors |
| ★ 6.NS.5 | Positive/negative | -5 | -5 |
| ★ 6.NS.6 | Opposite numbers | $-(-3) = 3$ | $-(-3) = 3$ |
| ★ 6.NS.7 | Absolute value | $ -7 = 7$ | $ -7 = 7$ |
| ★ 6.NS.7a | Number line order | $-3 < 2$ | $-3 < 2$ |
| ★ 6.NS.8 | Coordinate plane | $(-3, 5)$ | $(-3, 5)$ |

Expressions & Equations (6.EE) -- SBAC Priority

| Standard | What You Want | Type in Equation Column | Students See (rendered image) |
|-----------|------------------------|-------------------------|-------------------------------|
| ★ 6.EE.1 | Whole-number exponents | 5^3 | 5 cubed |
| ★ 6.EE.1 | Evaluate exponent | $2^4 = 16$ | 2 to the 4th = 16 |
| ★ 6.EE.2a | Write expression | $2 * (n + 3)$ | $2 \times (n + 3)$ |
| ★ 6.EE.2b | Parts of expression | $2x + 5 - 3$ | $2x + 5 - 3$ |
| ★ 6.EE.2c | Evaluate expression | $3^2 + 4 * 2$ | 3 squared + 4 x 2 |
| ★ 6.EE.3 | Equivalent expression | $2(3 + x) = 6 + 2x$ | $2(3+x) = 6 + 2x$ |
| ★ 6.EE.4 | Identify equivalent | $y + y + y = 3y$ | $y + y + y = 3y$ |
| ★ 6.EE.5 | Solution of equation | $x + 5 = 12$ | $x + 5 = 12$ |
| ★ 6.EE.7 | One-step equation | $x/3 = 7$ | x over 3 = 7 |
| ★ 6.EE.8 | Inequality | $x > 3$ | $x > 3$ |
| ★ 6.EE.9 | Dependent variable | $d = 65t$ | $d = 65t$ |

Geometry & Statistics (6.G, 6.SP)

| Standard | What You Want | Type in Equation Column | Students See (rendered image) |
|----------|--------------------|-------------------------|-------------------------------|
| 6.G.1 | Triangle area | $1/2 * b * h$ | $1/2 \times b \times h$ |
| 6.G.1 | Parallelogram area | $b * h$ | $b \times h$ |
| 6.G.1 | Trapezoid area | $1/2 * (b1 + b2) * h$ | $1/2 \times (b1+b2) \times h$ |
| 6.G.2 | Volume of prism | $l * w * h$ | $l \times w \times h$ |
| 6.G.4 | Surface area | $2*1*w + 2*1*h + 2*w*h$ | SA formula |
| 6.SP.3 | Mean | $(4 + 7 + 3 + 6) / 4$ | $(4+7+3+6) \text{ over } 4$ |

DIFFERENTIATION BAND

Content from the grade below (remediation/review) and above (enrichment/extension).

Below Grade: Grade 5 Review

| Standard | What You Want | Type in Equation Column | Students See (rendered image) |
|----------|----------------------|---------------------------------|--------------------------------------|
| 5.NF.1 | Add unlike fractions | $1/3 + 1/4$ | $1/3 + 1/4$ |
| 5.NF.4 | Fraction x fraction | $2/3 * 3/4$ | $2/3 \times 3/4$ |
| 5.NF.6 | Mixed number x | $2 \frac{1}{2} * 1 \frac{1}{3}$ | $2 \frac{1}{2} \times 1 \frac{1}{3}$ |
| 5.NBT.7 | Decimal x and / | $0.6 * 0.3$ | 0.6×0.3 |
| 5.OA.1 | Order of operations | $2 * (3 + 4)$ | $2 \times (3 + 4)$ |

Above Grade: Grade 7 Preview

| Standard | What You Want | Type in Equation Column | Students See (rendered image) |
|----------|--------------------|-------------------------|-------------------------------|
| 7.RP.2 | Proportional eq. | $y = 3x$ | $y = 3x$ |
| 7.NS.1 | Add integers | $-5 + 3$ | $-5 + 3$ |
| 7.NS.2 | Multiply negatives | $-3 * (-4)$ | $-3 \times (-4)$ |
| 7.EE.1 | Combine like terms | $4x + 2x - 3$ | $4x + 2x - 3$ |
| 7.EE.4 | Two-step equation | $2x + 3 = 11$ | $2x + 3 = 11$ |
| 7.G.4 | Circle area | $pi * r^2$ | $pi \times r \text{ squared}$ |
| 7.G.4 | Circumference | $2 * pi * r$ | $2 \times pi \times r$ |

Smarter Balanced (SBAC) Test Prep Tips

These equations align with SBAC Claim 1 (Concepts & Procedures). For Claims 2-4 (Problem Solving, Reasoning, Modeling), embed equations in word problems using the Question column. Stars mark SBAC priority standards tested most heavily.

SBAC Question Types in SheetFormR: Multiple Choice = Selected Response | Checkbox = Multiple Select | Short Answer = Constructed Response

Practice with real SBAC items: sampleitems.smarterbalanced.org | Practice/Training Tests: practice.smarterbalanced.org

Common Mistakes:

Always enable "Render Math Equations" in Build Options before building. Use * for multiplication (not the letter x).

Fractions: a/b renders as a stacked fraction. Use parentheses for complex fractions: $(x^2-1)/(x+1)$.

The "Students See" column describes the rendered image — it is NOT what you type. Preview your form to check equations.