

SheetFormR Math Mode — Grade 3

CCSS Domains: 3.OA | 3.NBT | 3.NF | 3.MD | 3.G

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 / = fraction == equals > < = compare ? = unknown () = 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: $5 * 7 \rightarrow$ Students see: a rendered image showing 5×7

Multiplication & Division (3.OA) -- SBAC Priority

Standard	What You Want	Type in Equation Column	Students See (rendered image)
★ 3.OA.1	Interpret products	$5 * 7$	5×7
★ 3.OA.2	Interpret quotients	$56 / 8$	$56 \text{ over } 8$
★ 3.OA.3	Equal groups problem	$6 * 4$	6×4
★ 3.OA.4	Unknown factor	$? * 8 = 48$	$? \times 8 = 48$
★ 3.OA.5	Commutative	$6 * 4 = 4 * 6$	$6 \times 4 = 4 \times 6$
★ 3.OA.5	Distributive	$8 * (5 + 2) = 8 * 5 + 8 * 2$	$8(5+2) = 8 \times 5 + 8 \times 2$
★ 3.OA.6	Division as unknown	$32 / 8 = ?$	$32 \text{ over } 8 = ?$
★ 3.OA.7	Fluent within 100	$7 * 9$	7×9
★ 3.OA.8	Two-step problems	$3 * 5 + 7$	$3 \times 5 + 7$
★ 3.OA.9	Arithmetic patterns	$4 * n$	$4 \times n$ (always even)

Place Value & Multi-Digit Arithmetic (3.NBT)

Standard	What You Want	Type in Equation Column	Students See (rendered image)
3.NBT.1	Round to nearest 10	$47 \rightarrow 50$	$47 \text{ rounds to } 50$
3.NBT.2	Add within 1000	$456 + 287$	$456 + 287$
3.NBT.2	Subtract within 1000	$800 - 356$	$800 - 356$
3.NBT.3	Multiply by multiples 10	$9 * 80$	9×80

Fractions as Numbers (3.NF) -- SBAC Priority

Standard	What You Want	Type in Equation Column	Students See (rendered image)
★ 3.NF.1	Unit fraction	$1 / 4$	$\frac{1}{4}$ (fraction bar)
★ 3.NF.1	Build from unit	$3 / 8$	$\frac{3}{8}$
★ 3.NF.2	Fraction on number line	$2 / 6$	$\frac{2}{6}$
★ 3.NF.3a	Equivalent fractions	$1 / 2 = 2 / 4$	$\frac{1}{2} = \frac{2}{4}$
★ 3.NF.3b	Equivalent fractions	$4 / 6 = 2 / 3$	$\frac{4}{6} = \frac{2}{3}$
★ 3.NF.3c	Whole as fraction	$3 / 3 = 1$	$\frac{3}{3} = 1$
★ 3.NF.3d	Compare fractions	$3 / 8 < 3 / 4$	$\frac{3}{8} < \frac{3}{4}$
★ 3.NF.3d	Compare (same numer.)	$1 / 3 > 1 / 5$	$\frac{1}{3} > \frac{1}{5}$

Measurement: Area & Perimeter (3.MD) -- SBAC Priority

Standard	What You Want	Type in Equation Column	Students See (rendered image)
★ 3.MD.5-6	Area of rectangle	$6 * 4$	6×4 (sq units)
★ 3.MD.7b	Distributive + area	$7 * 8 = 7 * (5 + 3)$	$7 \times 8 = 7 \times (5+3)$
★ 3.MD.7d	Area of composite	$5 * 3 + 5 * 4$	$5 \times 3 + 5 \times 4$
★ 3.MD.8	Perimeter	$2 * (6 + 4)$	$2 \times (6 + 4)$
★ 3.MD.8	Unknown side	$2 * 1 + 2 * 5 = 24$	$2 \times 1 + 2 \times 5 = 24$

DIFFERENTIATION BAND

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

Below Grade: Grade 2 Review (2.OA, 2.NBT)

Standard	What You Want	Type in Equation Column	Students See (rendered image)
2.OA.1	Add/sub within 100	$67 - 29$	$67 - 29$
2.OA.4	Arrays as add	$5 + 5 + 5$	$5 + 5 + 5$
2.NBT.7	Add within 1000	$486 + 237$	$486 + 237$
2.G.3	Halves, thirds	$1/3$	$1/3$

Above Grade: Grade 4 Preview (4.OA, 4.NF, 4.MD)

Standard	What You Want	Type in Equation Column	Students See (rendered image)
4.OA.1	Multiplicative compare	$35 = 5 * 7$	$35 = 5 \times 7$
4.OA.3	Multi-step problem	$4 * 8 + 3 * 5$	$4 \times 8 + 3 \times 5$
4.NBT.5	Multi-digit multiply	$35 * 12$	35×12
4.NF.1	Equivalent fractions	$3/4 = 6/8$	$3/4 = 6/8$
4.NF.2	Compare unlike denom.	$3/5 > 2/4$	$3/5 > 2/4$
4.NF.3	Add like fractions	$2/5 + 1/5$	$2/5 + 1/5$
4.NF.4a	Fraction x whole	$3 * 1/4$	$3 \times 1/4$
4.MD.5-6	Angle measure	90deg	90 degrees

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