

2026 UIL ELEMENTARY CALCULATOR CONTEST – GRADE 4 ELEMENTARY A+

GRADE 4 ELEMENTARY DIVISION • 40 PROBLEMS • 30-MINUTE SPEED SPRINT • SC-6 ELEMENTARY

// OFFICIAL CONTESTANT IDENTIFICATION

CONTESTANT NAME: _____

SCHOOL / CAMPUS: _____

GRADE LEVEL: [] 3 [] 4 [] 5 [] 6

CONTESTANT ID #: _____

OFFICIAL SCORING GRID (GRADER VERIFIED)					
PAGE	P1	P2	P3	P4	TOTAL
Correct (+5):					
Errors (-4):					
Subtotal:					

CONTEST RULES: 30 MINUTES • ALL ANSWERS TO 3 SIGNIFICANT DIGITS UNLESS INTEGER (INT) OR DOLLARS [\$].
SCORING: +5 points per correct response; -4 points per wrong/skipped question up to last attempted. Zero after last attempted.

SECTION 1: MULTI-DIGIT OPERATIONS & ESTIMATION

4-Digit Addition/Subtraction, 2-Digit Multiplication & Division with Quotients

MODE: [123] BASE-10

- G4-1.

1485 + 2348 - 892

1 = _____ INT
- G4-2.

48 × 26

2 = _____ INT
- G4-3.

75 × 34

3 = _____ INT
- G4-4.

864 ÷ 18

4 = _____ INT
- G4-5.

1248 ÷ 16

5 = _____ INT
- G4-6.

(34 × 15) - (18 × 12)

6 = _____ INT
- G4-7.

(520 + 380) ÷ 25

7 = _____ INT
- G4-8.

245 + 18 × 35

8 = _____ INT
- G4-9.

A school STEM lab buys 18 spools of 3D printer PLA filament for \$14.50 each and 25 mechanical switch keycaps for \$1.20 each. Calculate the total purchase cost in dollars.

9 = \$ _____
- G4-10.

A custom keyboard matrix has 24 rows with 32 mechanical switch sockets in each row. If 680 switch sockets are populated, how many sockets remain empty?

10 = _____

SECTION 2: FRACTION STUDIO & MIXED NUMBERS

MODE: [FDISP] FRACTION

Like Denominators, Mixed Numbers, Fraction Times Whole & [SIMP] Reduction

- G4-11.** $\frac{3}{8} + \frac{4}{8}$ **11 =** _____
- G4-12.** $\frac{7}{12} - \frac{3}{12}$ **12 =** _____
- G4-13.** $2\frac{3}{8} + 1\frac{5}{8}$ **13 =** _____ INT
- G4-14.** $4\frac{1}{6} - 1\frac{5}{6}$ **14 =** _____
- G4-15.** $5 \times (\frac{3}{8})$ **15 =** _____
- G4-16.** $4 \times (\frac{2}{5})$ **16 =** _____
- G4-17.** $\frac{18}{24}$ [SIMP] **17 =** _____
- G4-18.** $\frac{24}{36}$ [SIMP] **18 =** _____
- G4-19.** A 3D printing lab technician mixes $2\frac{3}{4}$ cups of clear UV photopolymer resin and $1\frac{3}{4}$ cups of white opaque resin. How many total cups of mixed resin are prepared?
19 = _____
- G4-20.** A 3D printer resin vat holds $\frac{5}{6}$ liter of photopolymer resin. After a print job, $\frac{2}{6}$ liter of resin remains. How many liters of resin were consumed?
20 = _____ L

SECTION 3: DECIMAL OPERATIONS & PLACE VALUE

Decimals through Hundredths, Money Purchases, Discounts & Comparing Values

MODE: [123] DECIMALS

- G4-21.

148.65 + 74.80 - 32.45

21 = _____
- G4-22.

12.5 × 6

22 = _____ INT
- G4-23.

8.75 × 14

23 = _____
- G4-24.

84.6 ÷ 6

24 = _____
- G4-25.

45/100 + 38/100

25 = _____
- G4-26.

3.45 + 18.20 + 9.65

26 = _____
- G4-27.

25.50 - 14.75

27 = _____
- G4-28.

(14.5 + 8.5) × 4.2

28 = _____
- G4-29.

A robotics student purchases 6 packs of conductive prototyping paste at \$4.75 each and 4 rolls of Kapton tape at \$2.60 each. What is the total cost in dollars?

29 = \$ _____
- G4-30.

A four-axis pick-and-place machine executes four component placement cycles in 14.25 seconds, 13.80 seconds, 14.50 seconds, and 13.45 seconds. What was the total placement cycle time in seconds?

30 = _____ s

SECTION 4: ELAPSED TIME & RECTANGULAR AREA

Flight/Class Schedules, Rectangular Area ($L \times W$) & Perimeter ($2L + 2W$)

MODE: [CLK] CLOCK

- G4-31.** 11:40 am to 3:15 pm **31 =** _____ hrs
- G4-32.** 3 hr 45 min + 2 hr 30 min **32 =** _____ hrs
- G4-33.** Area: 24.5 m $\times$ 16.0 m **33 =** _____ m²
- G4-34.** Area: 35.0 cm $\times$ 18.5 cm **34 =** _____ cm²
- G4-35.** Perimeter: $2 \times (24.5 + 16.0)$ **35 =** _____ m
- G4-36.** Area of square: 18.5 m $\times$ 18.5 m **36 =** _____ m²
- G4-37.** $(45 \times 20) - (15 \times 12)$ **37 =** _____ INT
- G4-38.** $14.5 \times 8.2 \div 2.0$ **38 =** _____
- G4-39.** A 3D printer workbench enclosure is 14.5 feet wide and 22.0 feet long. Calculate the base area of the enclosure in square feet.
39 = _____ ft²
- G4-40.** An automated PCB reflow oven soldering profile starts at 7:35 am and finishes at 10:15 am. Calculate the soldering profile duration in minutes.
40 = _____ min