

What is the value of the expression  $\frac{3^2 \cdot (2^3 + 4)}{2^2}$  ?

- (A) 10
- (B) 15
- (C) 19
- (D) 27

Which number has an absolute value greater than 5 ?

- (A) -6
- (B) -5
- (C) 0
- (D) 5

A bakery made 9 cakes using 3 bags of flour. The bakery uses the same relationship between cakes made and the amount of flour used to make all of their cakes. Which table of values shows the relationship between the number of cakes the bakery makes to the number of bags of flour the bakery uses?

CAKES BAKED

(A) 

Cakes	1	2	3	4	5
Bags of Flour	3	6	9	12	15

CAKES BAKED

(B) 

Cakes	3	6	9	12	15
Bags of Flour	1	2	3	4	5

CAKES BAKED

(C) 

Cakes	7	8	9	10	11
Bags of Flour	1	2	3	4	5

CAKES BAKED

(D) 

Cakes	1	2	3	4	5
Bags of Flour	7	8	9	10	11

Mr. Tola has a piece of wood that is  $8\frac{1}{4}$  feet in length. He wants to cut it into pieces that are each  $\frac{3}{4}$  foot in length. How many  $\frac{3}{4}$ -foot pieces of wood can Mr. Tola make?

- (A) 7
- (B) 8
- (C) 9
- (D) 11

A zoo has 15 toucans and 60 parrots. What is the ratio of the number of toucans to the number of parrots at the zoo?

- (A) 1 : 4
- (B) 1 : 5
- (C) 4 : 1
- (D) 4 : 5

An ice cream shop sold 48 vanilla milkshakes in a day, which was 40% of the total number of milkshakes sold that day. What was the total number of milkshakes that the ice cream shop sold that day?

- (A) 60
- (B) 72
- (C) 100
- (D) 120

What number is **not** part of the solution set to the inequality below?

$$w - 10 \leq 16$$

- (A) 11
- (B) 15
- (C) 26
- (D) 27

Abdi has two electric train sets: A and B. Each train is on its own circular track. He starts both trains at the same time. Train A returns to its starting point every 12 seconds. Train B returns to its starting point every 9 seconds. If the trains continue traveling, what is the **least** amount of time, in seconds, that both trains will arrive at the starting points at the same time?

**Show your work.**

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**Answer**

← → ✖ + - × ÷ = < ≤ > ≥ √ ∛ ∜ □ ∅ ∞ ∫ ∂ ∇ ∝ ∠ △ ⊂ ⊆

seconds

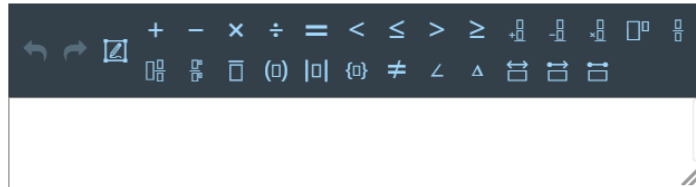


A store sells two different packages of glue sticks as described below.

- Package A: 18 glue sticks
- Package B: 12 glue sticks

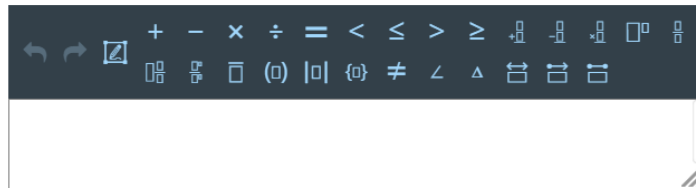
Write an equation for Package A and an equation for Package B that represent the total number of glue sticks,  $g$ , in  $p$  packages.

**Package A**



Equation editor interface for Package A. The toolbar includes symbols for undo, redo, insert, plus, minus, multiply, divide, equals, less than, less than or equal to, greater than, greater than or equal to, square root, cube root, power, fraction, percent, absolute value, parentheses, not equal, angle, triangle, and other mathematical symbols.

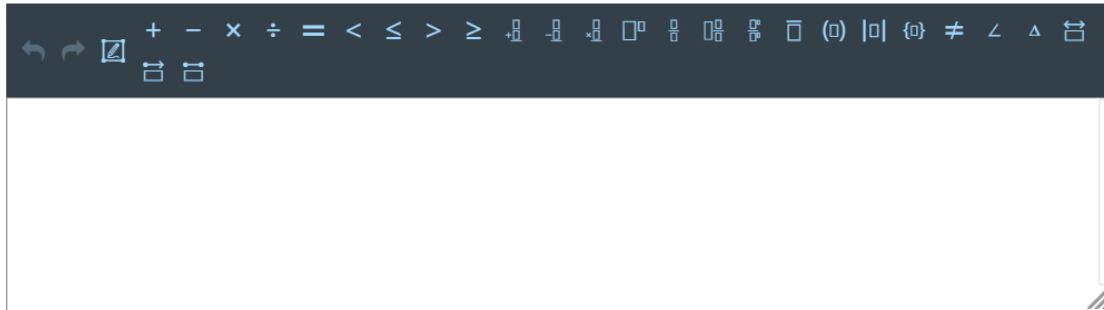
**Package B**



Equation editor interface for Package B. The toolbar includes symbols for undo, redo, insert, plus, minus, multiply, divide, equals, less than, less than or equal to, greater than, greater than or equal to, square root, cube root, power, fraction, percent, absolute value, parentheses, not equal, angle, triangle, and other mathematical symbols.

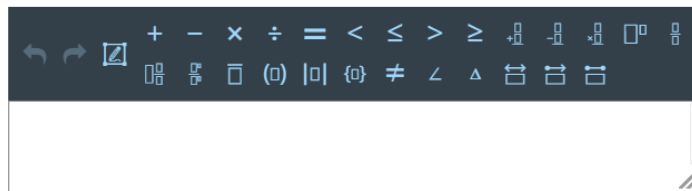
Mr. Davis buys 5 packages of the Package A glue sticks. Ms. Wilson buys 8 packages of the Package B glue sticks. Use your equations to find the difference in the total number of glue sticks that each person purchased.

**Show your work.**



Large empty workspace for showing work, with a toolbar at the top containing mathematical symbols and editing tools.

**Answer**



Equation editor interface for the answer. The toolbar includes symbols for undo, redo, insert, plus, minus, multiply, divide, equals, less than, less than or equal to, greater than, greater than or equal to, square root, cube root, power, fraction, percent, absolute value, parentheses, not equal, angle, triangle, and other mathematical symbols.

glue sticks