

# What Do You Call an Alligator That Sneaks Up and Bites You From Behind?



Simplify each expression below. Cross out the box that contains your answer. When you finish, print the letters from the remaining boxes in the squares at the bottom of the page.

①  $\frac{2x+10}{x+5}$

②  $\frac{x-3}{7x-21}$

③  $\frac{x^2-4}{x+2}$

④  $\frac{x^2-25}{3x-15}$

⑤  $\frac{x^2+4x}{x^2-9x}$

⑥  $\frac{n^2+7n+10}{n^2+2n-15}$

⑦  $\frac{n^2-7n+12}{n^2-2n-3}$

⑧  $\frac{n^2+7n-18}{n^2-4}$

⑨  $\frac{4n+28}{n^2+6n-7}$

⑩  $\frac{n-6}{n^2-6n}$

⑪  $\frac{2b^2-6b}{5b^2-15b}$

⑫  $\frac{b^2+4b-21}{2b^2-18}$

⑬  $\frac{3b^2+15b}{2b^3-50b}$

⑭  $\frac{b^2+4b+4}{2b^2+3b-2}$

⑮  $\frac{6b^3-24b^2}{b^2+b-20}$

AB	CH	AT	ES	AD	TO	AP	AI	RE	NO
$\frac{4}{n-1}$	$\frac{6b^2}{b+5}$	$\frac{3b}{b-5}$	$\frac{n+2}{n-3}$	$\frac{b+7}{2(b+3)}$	2	$\frac{n+9}{n+2}$	$\frac{b+4}{2b+1}$	$\frac{b+2}{2b-1}$	$\frac{x+4}{x-9}$
LG	TE	BR	AT	RY	BI	DO	OR	TE	AT
$\frac{x+4}{x-2}$	$\frac{1}{7}$	$\frac{2}{5}$	$\frac{n+2}{n-1}$	$\frac{1}{n}$	$\frac{x+5}{3}$	$\frac{3}{2(b-5)}$	$\frac{3}{2(b+10)}$	$\frac{n-4}{n+1}$	$x-2$

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# ◆ BOOKS NEVER WRITTEN ◆

Everybody Needs Insurance by

9 3 12 1 8 11 6 2 12 10

Rock 'n Roll Your Baby by

5 10 12 7 2 11 6 10

50 Years in the Navy by

8 8 12 10 4 4

ABOVE ARE THE TITLES OF THREE "BOOKS NEVER WRITTEN." TO DECODE THE NAMES OF THEIR AUTHORS:

Simplify each expression below. Find your answer and notice the letter next to it. Each time the exercise number appears in the code, write this letter above it.

①  $\frac{2x^2 - 18}{4x + 12}$

⑤  $\frac{-x^2 + 8x - 16}{x^3 - 4x^2}$

⑨  $\frac{4a^3b^4(a^2 + a - 42)}{28a^4b^4(6 - a)}$

②  $\frac{3x^2 - 24x + 36}{2x^2 - x - 6}$

⑥  $\frac{49x - x^3}{7 - 6x - x^2}$

⑩  $\frac{a^4 - 8a^3b}{a^3 - 64ab^2}$

③  $\frac{5x^2 - 25x}{3x^3 - 75x}$

⑦  $\frac{a^2 + 11ab + 18b^2}{a^2b + 9ab^2}$

⑪  $\frac{4a^2 + 8ab - 12b^2}{6a^2 - 12ab + 6b^2}$

④  $\frac{x^2 + 5x - 24}{3 - x}$

⑧  $\frac{15a^5b(5 - a)}{6a^2b^3(a - 5)}$

⑫  $\frac{10a^3b + 10a^2b}{4a^2b^3 + 2ab^3}$

Answers for exercises 1–6:

Ⓦ  $-\frac{x-4}{x-1}$

Ⓐ  $\frac{3(x-6)}{2x+3}$

Ⓤ  $\frac{5}{3(x+5)}$

Ⓡ  $-(x+8)$

Ⓣ  $\frac{x-3}{2}$

Ⓜ  $\frac{x(x-7)}{x+2}$

Ⓒ  $\frac{x(x-7)}{x-1}$

Ⓛ  $-\frac{x-4}{x^2}$

Answers for exercises 7–12:

Ⓝ  $-\frac{a+7}{7a}$

Ⓝ  $\frac{2(a+3b)}{3(a-b)}$

Ⓟ  $\frac{2(a-3b)}{3(a+b)}$

ⓓ  $\frac{a+2b}{ab}$

Ⓡ  $-\frac{5a^3}{2b^2}$

Ⓢ  $\frac{5a(a+1)}{b^2(2a+1)}$

ⓔ  $\frac{a^2}{a+8b}$

Ⓟ  $-\frac{a-7}{7ab}$