1.Multiply. Write your answer in lowest terms.

http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D%3A%23z%3Flufq%3D%3B%23z%23y%3F%2Cal%7B%3D%23%25glw8%23%3Fal%7B%3D21%23y%3Flufq%3D4%23z%3F%2Cal%7B%3D

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Multiply and simplify:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D7%23%7B%23%2E%2321%3Flufq%3D%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%28%230%23%7B%23%28%231%3F%2Cal%7B%3D%25glw8%3Fal%7B%3D%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%232%3Flufq%3D%7B%23%2E%230%3F%2Cal%7B%3D  3. Divide. Write your answer in lowest terms.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D1%23w%23z%3Flufq%3Dz%3F%2Cal%7B%3D%23%25gju8%23%3Fal%7B%3D%3B%23w%3Flufq%3D6%23z%3F%2Cal%7B%3D  4. Simplify.  7mn2  ———  9p3 q  ———  28n3  ———  3p4 q2   |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #5/19**  Simplify as much as possible  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%09%3Fal%7B%3Dv%3Flufq%3Dv%23%28%23%3Fal%7B%3D7v%3Flufq%3D6%23%28%09%3Fal%7B%3D2%3Flufq%3Dv%23%28%232%3F%2Cal%7B%3D%3F%2Cal%7B%3D%3F%2Cal%7B%3D%09 . | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | 6. Subtract. Write your answer in lowest terms.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%23%3Fal%7B%3D6z%23%28%23%3Bv%3Flufq%3D%3Az%3F%2Cal%7B%3D%23%2E%23%3Fal%7B%3D%3Bz%23%28%235v%3Flufq%3D%3Az%3F%2Cal%7B%3D%09 | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #7/19**  Express as a single fraction in lowest terms:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%2E%25wkjmps8%3B%23%25wkjmps8%23%28%25ps8%09%3Fal%7B%3D4w%25wkjmps8%2E%25wkjmps8t%3Flufq%3D1w%3F%2Cal%7B%3D%09%25ps8%28%25ps8%09%3Fal%7B%3D1w%25wkjmps8%2E%25wkjmps80t%3Flufq%3D0w%3F%2Cal%7B%3D%09  . | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #8/19**  Subtract and simplify:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D2%3Flufq%3D%7B%23%2E%232%3F%2Cal%7B%3D%23%2E%23%3Fal%7B%3D1%23%7B%23%28%230%3Flufq%3D%7B%3F%2Cal%7B%3D | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | 9. Add and simplify:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D0%3Flufq%3D6%23%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%23%7B%23%2E%237%3F%2Cal%7B%3D%23%28%23%3Fal%7B%3D1%3Flufq%3D6%23%7B%3Fpvs%3D1%3F%2Cpvs%3D%23%28%2327%23%7B%23%28%23%3B%3F%2Cal%7B%3D | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #10/19**  Simplify.  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D0y%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%2321%3Flufq%3Dy%3Fpvs%3D1%3F%2Cpvs%3D%23%28%231y%23%2E%23%3B%3F%2Cal%7B%3D | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #11/19**  Reduce the following rational expression to its lowest terms:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D5%23z%3Fpvs%3D5%3F%2Cpvs%3D%23y%3Fpvs%3D1%3F%2Cpvs%3D%23%2E%23%3B%23z%3Fpvs%3D5%3F%2Cpvs%3D%3Flufq%3D1%23%7B%3Fpvs%3D1%3F%2Cpvs%3D%23z%3Fpvs%3D0%3F%2Cpvs%3D%3F%2Cal%7B%3D . | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  |   12.  Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?v:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%23%3Fal%7B%3D0%3Flufq%3Dv%3F%2Cal%7B%3D%23%3E%23%2E%23%3A .  Simplify your answer as much as possible.  **Question #13/19**  Solve the following equation for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?v:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D2%3Flufq%3Dv%23%2E%236%3F%2Cal%7B%3D%23%3E%23%2E4 .  Simplify your answer as much as possible. | | |  | | --- | | **Question #14/19**  Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?y .  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3A%23%28%23%3Fal%7B%3D1%3Flufq%3Dy%23%2E%232%3F%2Cal%7B%3D%23%3E%23%2E%3Fal%7B%3D7%3Flufq%3Dy%23%2E%231%3F%2Cal%7B%3D  (If there is more than one solution, separate them with commas.) | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #15/19**  Solve for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?y .  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3Dy%23%28%230%3Flufq%3Dy%23%28%232%3F%2Cal%7B%3D%23%28%232%23%3E%23%3Fal%7B%3Dy%23%28%231%3Flufq%3Dy%23%28%230%3F%2Cal%7B%3D  (If there is more than one solution, separate them with commas.) | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | **Question #16/19**  Solve the following proportion for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?u .   |  |  |  | | --- | --- | --- | | http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3Du%3Flufq%3D4%3F%2Cal%7B%3D | http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3E | http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D%3B%3Flufq%3D0%3F%2Cal%7B%3D |   Round your answer to the nearest tenth. | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **17. question #17/19**  Solve the following proportion for http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?v:  http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?%3Fal%7B%3D%2E%3B%3Flufq%3Dv%3F%2Cal%7B%3D%3E%3Fal%7B%3D1%3Flufq%3Dv%23%28%236%3F%2Cal%7B%3D . | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #18/19**  A machine produces http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?2%3A1 bolts in http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?05 minutes. At the same rate, how many minutes would it take to produce http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?165 bolts? | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | **Question #19/19**  There are two machines that produce aluminum cans. The newer machine can produce http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?6733cans in http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?2%3B3 minutes. It takes the older machine http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?143 minutes to produce that many cans. If the two machines work together, how long will it take them to produce http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/NM?6733 cans? | | |  |  | | --- | --- | | |  | | --- | |  | | |  |  | | --- | |  | | | | | |  |  | | --- | --- | | |  | | --- | |  | | |

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