

Rational Expressions

No Calculator

1. If $\left(\frac{a}{b}\right) = 3$, what is the value of $-12\left(\frac{b}{a}\right)$?
2. If $\left(\frac{a}{b}\right) = -9$, what is the value of $18\left(\frac{b}{a}\right)$?
3. If $\left(\frac{a}{b}\right) = -6$, what is the value of $18\left(\frac{b}{a}\right)$?
4. If $\left(\frac{a}{b}\right) = -7$, what is the value of $35\left(\frac{b}{a}\right)$?
5. Solve the following expression for x : $y = \left(\frac{10}{9}\right)x$
6. If $\left(\frac{a}{b}\right) = -6$, what is the value of $-30\left(\frac{b}{a}\right)$?
7. Solve the following expression for x : $y = \left(\frac{4}{7}\right)x$
8. Solve the following expression for x : $y = \left(\frac{7}{5}\right)x$
9. Solve the following expression for x : $y = \left(\frac{2}{10}\right)x$
10. Solve the following expression for x : $y = \left(\frac{2}{6}\right)x$
11. If $\left(\frac{a}{b}\right) = 8$, what is the value of $-64\left(\frac{b}{a}\right)$?
12. Solve the following expression for x : $y = \left(\frac{2}{3}\right)x$
13. If $\left(\frac{a}{b}\right) = 4$, what is the value of $-28\left(\frac{b}{a}\right)$?
14. If $\left(\frac{a}{b}\right) = -6$, what is the value of $-30\left(\frac{b}{a}\right)$?
15. If $\left(\frac{a}{b}\right) = -3$, what is the value of $-6\left(\frac{b}{a}\right)$?
16. If $\left(\frac{a}{b}\right) = -6$, what is the value of $36\left(\frac{b}{a}\right)$?
17. If $\left(\frac{a}{b}\right) = -4$, what is the value of $28\left(\frac{b}{a}\right)$?
18. If $\left(\frac{a}{b}\right) = -4$, what is the value of $32\left(\frac{b}{a}\right)$?

Answers

1. -4
2. -2
3. -3
4. -5
5. $x = (9/10)y$
6. 5
7. $x = (7/4)y$
8. $x = (5/7)y$
9. $x = (10/2)y$
10. $x = (6/2)y$
11. -8
12. $x = (3/2)y$
13. -7
14. 5
15. 2
16. -6
17. -7
18. -8