

## 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.  $-8$