

Dividing Signed Numbers

Practice Exercises

These exercises will help you practice dividing signed numbers. It is important that you be able to do problems like this very quickly and very easily, without a calculator. If you cannot, you are going to have tremendous difficulty with later topics in math, and the problem will not be those topics, it will be that you are not comfortable with exercises like these.

Remember these rules for dividing signed numbers:

- 1) A positive divided by a positive is positive.
- 2) A positive divided by a negative (or vice-versa) is negative.
- 3) A negative divided by a negative is positive.

Rule: Dividing same signs equals a positive. Dividing unlike signs equals a negative. These are the exact same rules for multiplying signed numbers.

Important: Dividing by 0 is not allowed. The answer is **not** 0. The answer is “undefined.” Write that word as your answer. If you try to divide by 0 on your calculator, it will display “Error.”

Note: The parentheses in these problems are optional. There were added to make the numbers easier to see. You may not see parentheses in similar problems, but if it is helpful, you can put them in yourself.

1) $(-30) / (5)$

9) $(13) / (13)$

2) $(56) / (-7)$

10) $(-5) / (5)$

3) $(-32) / (-8)$

11) $(-60) / (-2) / (5)$

4) $(-35) / (7)$

12) $(-100) / (5) / (-4)$

5) $(-8) / (2)$

13) $(80) / (-8) / (-1) / (2)$

6) $(-900) / (10)$

14) $(-909) / (-9) / (-1)$

7) $(-48) / (-4)$

15) $(120) / (6) / (-4)$

8) $(-12) / (-12)$

16) $(-40) / (0) / (5) / (-7) / (-10)$