

A) Converting decimals and large fractions to lowest reduced fractions is super simple!

After typing value in calculator, press: MATH, ENTER, ENTER

1. What is 0.625 as a lowest reduced fraction? a) 5/8 b) 3/5 c) 1/2 d) 1/3 e) 13/18
2. What is 35/105 as a lowest reduced fraction? a) 5/20 b) 1/3 c) 8/20 d) 9/21 e) 10/19
3. What is 18/54 as a lowest reduced fraction? a) 2/5 b) 4/9 c) 1/3 d) 2/6 e) 5/9
4. What is 49/98 as a lowest reduced fraction? a) 8/9 b) 7/12 c) 8/12 d) 1/2 e) 3/4
5. What is .125 as a lowest reduced fraction? a) 1/12 b) 4/20 c) 1/8 d) 7/40 e) 9/19

B) Lengthy problems involving arithmetic should be entered on one line: plug the entire sequence from left to right into your calculator. Your goal is to press ENTER only once per problem.

6. Evaluate: $2 + 3 \times 6 - 12$ a) 8 b) 18 c) -16 d) 16 e) 0
7. Evaluate: $24 \div 12 + (4-5)^2 - 14$ a) 6 b) 10 c) -11 d) 8 e) 11
8. Evaluate: $8 * (3/9) \div 12 * 4 + 8$ a) 80/9 b) 136 c) 12 d) 1/4 e) 4/9
9. Evaluate: $2^4 - 12 * -1 \div 4$ a) 6 b) -8 c) 8 d) 19 e) -19

C) Numerators and/or denominators with more than one number require parentheses. Press ENTER only once.

$$10. \frac{2 - 52}{5 * 3}$$

$$11. \frac{4 * 3}{9 - 3}$$

$$12. \frac{14 + 28}{7 - 12}$$

$$13. \frac{10}{12 - 3}$$

$$14. \frac{87 - 19}{5}$$

$$15. \frac{2 - 5}{-8 - 15}$$

D) When dealing with negative numbers and exponents, enter exactly what you see.

(Do not use parentheses if they are not there!)

16. Evaluate: -3^4 a) 81 b) -81 c) 27 d) -81 e) -27
17. Evaluate: $(-3)^4$ a) 81 b) -81 c) 27 d) 64 e) -64
18. Evaluate: $-2^2 + (-2)^2$ a) 8 b) -8 c) 0 d) 2 e) -2

E) When plugging negative values in for "x", you must use parentheses around the negative number!

19. Evaluate: x^2 for $x = -2$ a) 4 b) -4 c) -2 d) -8 e) 0
20. Evaluate: $-x^2$ for $x = -3$ a) 9 b) -9 c) 6 d) -6 e) 3
21. Evaluate: $x + 5 - 2(x^2 - 2)$ for $x = -1$ a) 10 b) 6 c) -10 d) -6 e) 5
22. Evaluate: $x^2 + x^3 - x$ for $x = -2$ a) 10 b) -2 c) -14 d) 14 e) 8

F) Fractional exponents require parentheses around the entire fraction.

23. Evaluate: $-64^{1/2}$ a) -8 b) 0 c) 8 d) 16 e) -32
24. Evaluate: $25^{1/2}$ a) -1/25 b) -5 c) 0 d) 5 e) 125
25. Evaluate: $x^{1/3} \div 5^2$ for $x = 8$ a) -25/4 b) 0 c) 2/25 d) -10 e) 4/5
26. Evaluate: $-x^{1/3} \div 5^2$ for $x = -27$ a) -25 b) -5 c) -3/25 d) -10 e) 5

Answers

01. a
02. b
03. c
04. d
05. c
06. a
07. c
08. a
09. d
10. -10/3
11. 2
12. -8.4
13. 10/9
14. 13.6
15. 3/23
16. d
17. a
18. c
19. a
20. b
21. b
22. b
23. a
24. d
25. c
26. c