



Solve the following problems using the order of operations.

Remember**Step 1:** Parenthesis ()

Solve all problems in parenthesis FIRST.

Step 2: Exponents $^{\circ}, ^{\circ}, ^{\circ}$

Next solve any numbers that have exponents.

Step 3: Multiply or Divide \times, \div

Then solve any multiplication or division problems (going from left to right).

Step 4: Add or Subtract $+, -$

Finally solve any addition or subtraction problems (going from left to right).

1) $21 \div 3 + (3 \times 9) \times 9 + 5$

Step 1: $(3 \times 9) = 27$

$21 \div 3 + 27 \times 9 + 5$

Step 2: $21 \div 3 = 7$

$7 + 27 \times 9 + 5$

Step 3: $27 \times 9 = 243$

$7 + 243 + 5$

Step 4: $7 + 243 = 250$

$250 + 5$

Step 5: $250 + 5 = 255$

255

2) $18 \div 6 \times (4 - 3) + 6$

Step 1: $(4 - 3) = 1$

$18 \div 6 \times 1 + 6$

Step 2: $18 \div 6 = 3$

$3 \times 1 + 6$

Step 3: $3 \times 1 = 3$

$3 + 6$

Step 4: $3 + 6 = 9$

9

3) $14 - 8 + 3 + 8 \times (24 \div 8)$

Step 1: $(24 \div 8) = 3$

$14 - 8 + 3 + 8 \times 3$

Step 2: $8 \times 3 = 24$

$14 - 8 + 3 + 24$

Step 3: $14 - 8 = 6$

$6 + 3 + 24$

Step 4: $6 + 3 = 9$

$9 + 24$

Step 5: $9 + 24 = 33$

33

4) $4 \times 5 + (14 + 8) - 36 \div 9$

Step 1: $(14 + 8) = 22$

$4 \times 5 + 22 - 36 \div 9$

Step 2: $4 \times 5 = 20$

$20 + 22 - 36 \div 9$

Step 3: $36 \div 9 = 4$

$20 + 22 - 4$

Step 4: $20 + 22 = 42$

$42 - 4$

Step 5: $42 - 4 = 38$

38

5) $(17 - 7) \times 6 + 2 + 56 - 8$

Step 1: $(17 - 7) = 10$

$10 \times 6 + 2 + 56 - 8$

Step 2: $10 \times 6 = 60$

$60 + 2 + 56 - 8$

Step 3: $60 + 2 = 62$

$62 + 56 - 8$

Step 4: $62 + 56 = 118$

$118 - 8$

Step 5: $118 - 8 = 110$

110

6) $(28 \div 4) + 3 + (10 - 8) \times 5$

Step 1: $(28 \div 4) = 7$

$7 + 3 + (10 - 8) \times 5$

Step 2: $(10 - 8) = 2$

$7 + 3 + 2 \times 5$

Step 3: $2 \times 5 = 10$

$7 + 3 + 10$

Step 4: $7 + 3 = 10$

$10 + 10$

Step 5: $10 + 10 = 20$

20

7) $12 - 5 + 6 \times 3 + 20 \div 4$

Step 1: $6 \times 3 = 18$

$12 - 5 + 18 + 20 \div 4$

Step 2: $20 \div 4 = 5$

$12 - 5 + 18 + 5$

Step 3: $12 - 5 = 7$

$7 + 18 + 5$

Step 4: $7 + 18 = 25$

$25 + 5$

Step 5: $25 + 5 = 30$

30

8) $36 \div 9 + 48 - 10 \div 2$

Step 1: $36 \div 9 = 4$

$4 + 48 - 10 \div 2$

Step 2: $10 \div 2 = 5$

$4 + 48 - 5$

Step 3: $4 + 48 = 52$

$52 - 5$

Step 4: $52 - 5 = 47$

47

9) $10 + 8 \times 90 \div 9 - 4$

Step 1: $8 \times 90 = 720$

$10 + 720 \div 9 - 4$

Step 2: $720 \div 9 = 80$

$10 + 80 - 4$

Step 3: $10 + 80 = 90$

$90 - 4$

Step 4: $90 - 4 = 86$

86

10) $8 \times 3 + 70 \div 7 - 7$

Step 1: $8 \times 3 = 24$

$24 + 70 \div 7 - 7$

Step 2: $70 \div 7 = 10$

$24 + 10 - 7$

Step 3: $24 + 10 = 34$

$34 - 7$

Step 4: $34 - 7 = 27$

27

Answers

1. 255
2. 9
3. 33
4. 38
5. 110
6. 20
7. 30
8. 47
9. 86
10. 27

Answers Solving Problems Using Order Of Operations

Lorin Olschanski



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Order of Operations Rumi Michael Leigh, 2022-10-04 Order of Operations Things You Should Know Questions and Answers explains how to solve math problems step by step using the correct sequence The book covers parentheses exponents multiplication division addition and subtraction It also includes fractions decimals and equations with multiple steps Examples show how each rule is applied followed by exercises with solutions for practice This book will interest students math learners and exam candidates who want to study the order of operations in arithmetic and algebra

Getting Started with Teacher Clarity Marine Freibrun, 2021-05-25 Help elementary school students engage in the learning process and achieve their goals in the classroom with this effective proven teaching method Clear communication between students and teachers is crucial for effective learning When students understand the why and how of learning a k a teacher clarity it s so much easier for them to fully engage with the process and achieve their goals This book details the benefits that clear communication can have in elementary classroom from breaking down the basics of teacher clarity and shared learning progressions to providing classroom ready activities Plus you ll discover suggestions for effective classroom teaching practices including Deconstructing state standards to develop learning intentions and objectives Developing success criteria to support new learning Building student awareness through structured language talk Embedding self assessment checks for students to assess their levels of understanding throughout a lesson And much more Through the research based methods of teacher clarity educators will understand the importance of partnership between students and teachers which in turn fosters improved student success

Your Mathematics Standards Companion, Grades 3-5 Linda M. Gojak, Ruth Harbin Miles, 2017-05-17 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band

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