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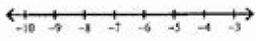
Name \_\_\_\_\_

Solving One-Step Inequalities by Multiplying/Dividing

Period \_\_\_\_\_

Solve each inequality and graph its solution.

1)  $-5x \geq 25$



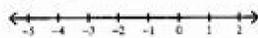
2)  $\frac{n}{4} \leq 3$



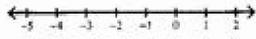
3)  $2x > 2$



4)  $\frac{p}{4} \leq -\frac{1}{4}$



5)  $-3x > 0$



6)  $\frac{m}{4} \leq -2$



7)  $-3n > 15$



8)  $-3v > 45$



9)  $8a < 96$



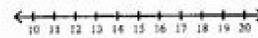
10)  $10b \leq -10$



11)  $\frac{b}{6} > -3$



12)  $\frac{x}{5} \leq 3$



1) Fill in the blank with  $<$ ,  $>$ , or  $=$

SOLUTIONS

Absolute Value Quick Review

- $-(5) = | -5 |$       $5 = 5$
- $(-5) < | -5 |$       $-5 < 5$
- $| 4 - 2 | = | 2 - 4 |$       $2 = 2$
- $-2(4) = -4(2)$       $-8 = -8$
- $| 7 - (-9) | > 7 - 19$       $16 > -2$
- $| -3 | > 2$       $3 > 2$
- $-2 < -(-2)$       $-2 < 2$
- $| -4 | > -4$       $4 > -4$

2)  $| 5 + 3 | - | 8 | =$

- a) -6
- b) 0
- c) 6
- d) 10
- e) 16

3)  $\frac{1}{4} - \frac{| 14 |}{| 2 |} = \frac{1}{4} - \frac{14}{2} = -5$

- $\frac{1}{-3} - \frac{-9}{|-3|} = \frac{1}{-3} - \frac{-9}{3} = -\frac{1}{3} - (-3) = 0$
- $-8 - |-10| = -8 - 10 = -18$
- $+8 - |0| = 8 - 0 = 8$
- $-8 - |-10| = -8 - 10 = -18$
- $+8 - |-10| = 8 - 10 = -2$

I. Graph the following on a number line

a)  $x > 5$



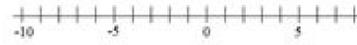
b)  $2x \leq 4$



c)  $3x + 2 < 9$



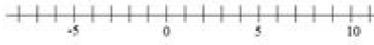
d)  $x = -4$



e)  $-3x > 6$



f)  $-5 < x \leq 1$

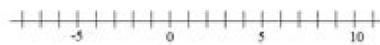


II. Absolute Values: Solve and graph the following

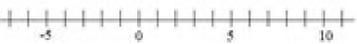
a)  $|x + 3| < 6$



b)  $|3x| < 18$



c)  $2|x + 1| \geq 6$



d)  $|2x| + 8 < 4$



e)  $|x - 3| + 4 \geq 9$



f)  $|x + 7| = 1$



Absolute Value Inequalities Worksheet

NAME \_\_\_\_\_

For each absolute value inequality, write the inequality without the absolute value by using the appropriate property. Also, state whether the solution set will be a single interval or a union of two intervals.

1.  $|x - 2| > 8$

2.  $|2x + 3| \geq 7$

3.  $|5 - z| < 18$

4.  $|3v - 5| \leq 3$

5.  $|5 - 2x| \geq 13$

6.  $|3y + 4| < 2$

7.  $|k - 3| > 1$

8.  $|2n + 1| \leq 10$

9.  $|5 - 2r| \geq 6$

10.  $|q + 5| \leq 15$

11.  $|2m + 4| < 9$

12.  $|p - 5| > 5$

Name _____	Period _____	
<b>Absolute Value Equations</b>		
Answer Key		
1. $ x+2 =7$	2. $ 2x+1 =7$	3. $7= x $
$-9, 5$	$-4, 3$	$-7, 7$
4. $ x -3=5$	5. $-2 7x =-14$	6. $ 2x-3 -4=3$
$-8, 8$	$-2, 1$	$-2, 5$
7. $ 2x+6 =-2+2$	8. $ x-20 =6$	9. $ 3x-4 =5$
$3$	$-4, 16$	$-\frac{1}{3}, 3$
10. $55=5 c -4$	11. $ 4x+6 +3=3$	12. $ y-20 =-2+3$
$-4, 4$	No Solution	$-3, 3$
13. $ 1-x =7$	14. $2 7x =28$	15. $ 3x-6 =9$
$-8, 8$	$-2, 2$	$-1, 5$

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The book has a working title of ORCCA (Open Resources for Community College Algebra). At PCC, these materials will cover the sequence MTH 60/65 (or its alternatives MTH 61/62/63 or MTH 70) and MTH 95. Note the playlist ID is at the end. YouTube playlist IDs: SectionTitlePlaylistID.1. Variables and Evaluating ExpressionsPLMuZCPhWpT-c0p0ZMJH06y0bhdz2KfQ1. 2. Combining Like TermsPLMuZCPhWpT-dqIdRb32SeMeTrVhH4p1. 3. Comparison Symbols and Notation for IntervalsPLMuZCPhWpT-e616R-Bwkcns9LWJrMxh01. 4. Equations and Inequalities as True/False StatementsPLMuZCPhWpT-dTjW-zF33uV6oFmBjdZjp1. 5. Solving One-Step EquationsPLMuZCPhWpT-ctxbKypuCyTQFoSxATAE1. 6. Solving One-Step InequalitiesPLMuZCPhWpT-e0Z7JTXdkR9V8MDjzml1. 7. Algebraic Properties and Simplifying ExpressionsPLMuZCPhWpT-ewLULOCnsXAZyZ5k86H6A1. 8. Modeling with Equations and InequalitiesPLMuZCPhWpT-dL4to2zhHwZBLGk6Bf012. 1. Solving Multistep Linear EquationsPLMuZCPhWpT-f7ezMxAmnOjEHHU6BOLTH2. 2. Solving Multistep Linear InequalitiesPLMuZCPhWpT-cjEXEsK8i6AWi0fgrEGuO2. 3. Linear Equations and Inequalities with FractionsPLMuZCPhWpT-e\_QSbGeacmrdYommpaxf42. 4. Special Solution SetsPLMuZCPhWpT-esiq8AIMMACzqOpC5jYgR2. 5. Isolating a Linear VariablePLMuZCPhWpT-45-qOx8wPyZf4j1u4OHhQV3. 1. Cartesian CoordinatesPLMuZCPhWpT-cHeBo5cBbvM9w9bPCv8TU63. 2. Graphing EquationsPLMuZCPhWpT-cYCLyMtd7GdwFZ4DRDfTbC3. 3. Exploring Two-Variable Data and Rate of ChangePLMuZCPhWpT-dy8SL-jRrCuU2G2ueG9Bxb3. 4. SlopePLMuZCPhWpT-ehh1ZJSr3Tp7xyAA50d5R3. 5. Slope-Intercept FormPLMuZCPhWpT-cR9nhDjCByg3. 6. Point-Slope FormPLMuZCPhWpT-eTTovr5Y8Tts7TmRq43W3. 7. Standard FormPLMuZCPhWpT-dXmMays9lNZg0c3U77LbW3. 8. Horizontal, Vertical, Parallel, and Perpendicular LinesPLMuZCPhWpT-dG-XwuV-W9d\_U79oIF6z-R3. 9. Summary of Graphing LinesPLMuZCPhWpT-dSIB9W3SsQsOwCmMihcY4. 1. Solving Systems of Linear Equations by GraphingPLMuZCPhWpT-c8HMSubh9qTj1BjEvrrZiH4. 2. SubstitutionPLMuZCPhWpT-e7mzn96lqkqK8OrcpG8Cw4. 3. EliminationPLMuZCPhWpT-kef6hvJEQOK6tUUh2K24. 4. Systems of Linear Equations Chapter ReviewPLMuZCPhWpT-fpvaV7CZcWuFb7MjW8aITX5. 1. Adding and Subtracting PolynomialsPLMuZCPhWpT-IUGNulInshsnR9R9i6M5. 2. Introduction to Exponent RulesPLMuZCPhWpT-ft72i0PCyXfHCp1OgGRz5. 3. Dividing by a MonomialPLMuZCPhWpT-ctMJKDHYZdH-wRBE0WZdAE5. 4. Multiplying PolynomialsPLMuZCPhWpT-ec8s7JznacEj2YJtmRkY15. 5. Special Cases of Multiplying PolynomialsPLMuZCPhWpT-dZn2TR86jVOK-vjwNjG5. 6. More Exponent RulesPLMuZCPhWpT-ecqkqwe7LK1cSKRgO14T6. 1. Square and nth Root PropertiesPLMuZCPhWpT-dBQmCoJuoDyHSDrp726. 2. Rationalizing the DenominatorPLMuZCPhWpT-d\_Yf-bkayEK54h-Uj66. 3. Radical Expressions and Rational ExponentsPLMuZCPhWpT-d\_Q\_1lMxBoIeI9PzYa66. 4. Solving Radical EquationsPLMuZCPhWpT-fmrT5t4H\_bq4X088uLVcn7. 1. Solving Quadratic Equations by Using a Square RootPLMuZCPhWpT-ckOCzGh1Rgy2OCT1Hzsp37. 2. The Quadratic FormulaPLMuZCPhWpT-dvXvmkv2B4YtnK-s2WCh97. 3. Complex Solutions to Quadratic EquationsPLMuZCPhWpT-fS8q36sebsN9ECG3i1XSA97. 4. Solving Equations in GeneralPLMuZCPhWpT-fbxbMVRiul2TSS\_c4jCu8. 1. Scientific NotationPLMuZCPhWpT-fBUfhkt0R0ZJW1P8c66f8. 2. Unit ConversionPLMuZCPhWpT-dw7L8cAsmxjAYgONVWJdmz8. 3. Geometry FormulasPLMuZCPhWpT-dld86yGDqktWW3R\_aTQ0i8. 4. Geometry ApplicationsPLMuZCPhWpT-dsYI3mxkxwqJduUeXkE3ST9. 1. Review of GraphingPLMuZCPhWpT-IDPXHoIcPhE2V8svBRZK9zKey Features of Quadratic GraphsPLMuZCPhWpT-cwQC\_hjL7F5fD061zyT019. 3. Graphing Quadratic ExpressionsPLMuZCPhWpT-fRIjqi-3\_he5nEf9TMNm9. 4. Graphically Solving Equations and InequalitiesPLMuZCPhWpT-faermmbkVAXHrHrHYjfnUB10. 1. Factoring Out the Common FactorPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 2. Factoring by GroupingPLMuZCPhWpT-70IFN5oMwG86AgAsm10. 3. Factoring Trinomials with Leading Coefficient OnePLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 4. Factoring Trinomials with a Nontrivial Leading CoefficientPLMuZCPhWpT-5xvclDvWYew7SsretPyX\_10. 5. Factoring Special PolynomialsPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 6. Factoring StrategiesPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 7. Solving Quadratic Equations by FactoringPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 8. Graphically Solving Equations and InequalitiesPLMuZCPhWpT-faermmbkVAXHrHrHYjfnUB10. 1. Domain and RangePLMuZCPhWpT-faermmbkVAXHrHrHYjfnUB10. 2. Domain and RangePLMuZCPhWpT-faermmbkVAXHrHrHYjfnUB10. 3. Using Technology to Explore FunctionsPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 4. Simplifying Expressions with Function NotationPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 5. Technical Definition of a FunctionPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 6. Introduction to Rational FunctionsPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 7. Multiplication and Division of Rational ExpressionsPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 8. Addition and Subtraction of Rational ExpressionsPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 9. GraphingPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 1. Quadratic Graphs and Vertex FormPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 2. Quadratic Graphs and Vertex FormPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 3. Completing the SquarePLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 4. Absolute Value EquationsPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 5. Solving Mixed EquationsPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 6. Compound InequalitiesPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 7. Solving Inequalities GraphicallyPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 8. Arithmetic with Negative NumbersPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 9. Fractions and Fraction ArithmeticPLMuZCPhWpT-c0YIjK5Tg1NzpxTkdexDYG1\_h10. 1. Absolute Value and Square RootPLMuZCPhWpT-d526t6oZEdA39w3u05i5A. 4. PercentagesPLMuZCPhWpT-EXjHrFakV4f0tqG1WA. 5. Order of OperationsPLMuZCPhWpT-eUvLTlRalcVzyj6eCaSqTra. 6. Set Notation and Types of NumbersPLMuZCPhWpT-cae4g06BTDpKj7RCO-bgtpThe videos feature PCC instructors working through examples on screen. 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The textbook is being written using PreTeXt, which provides an e-book, free to everyone print book synchronized with the e-book, available for free as an electronic pdf, or for cost plus overhead at the PCC bookstore embedded online homework exercises using the online homework platform WebWork. The MTH 60 portion of the book was piloted by 11 PCC faculty in Fall 2017, 12 in Winter 2018, and 9 in Spring 2017. You may want to use the playlists for other purposes, and here you may find the complete list of YouTube playlist IDs for edition 2. These may be used in many ways. The MTH 65 portion of the book was piloted by 7 PCC faculty in Winter 2018, and 9 in Spring 2017. The MTH 95 portion of the book was piloted by 10 PCC faculty in Spring 2017. Starting in Fall of 2018, all face-to-face sections of MTH 60/65 will use ORCCA. In summer, these courses are often (but not always) taught with 8 weeks of class and no finals week. And of course, customize as wanted. Most exercises are available as WebWork exercises, but not all, as indicated below. Larger changes might be made, but need to wait until the next edition to be seen. Background: In July 2016, PCC's strategic planning initiative awarded funding for math faculty to produce a complete OER for precollege algebra. The most common ways would be to provide someone a link to go to YouTube and watch the playlist. You can download PDFs with these same examples, with space provided as in the videos. The most common schedule at PCC for face-to-face operation of these classes is ten weeks of class plus a final exam week. Small things like a typo might be immediately corrected in the HTML eBook. Especially feedback that is specific enough that we can act upon to improve the book. Committee work that has been put into COOC development and textbook searches in the past will instead be put into making this book suit our needs. Over academic year 2018/9, PCC curriculum for these courses changed, and ORCCA changed along with them. An institution can host its own WebWork server. The non-WebWork exercises are typically exercises where something needs to be graphed or explained, and automated grading by WebWork is not appropriate. If you use WebWork, you may elect to load these "selected" exercise sets or load exercise sets with all WebWork exercises from each section. The committee that oversees these courses has a majority opinion that they should not be published. The Part 3 zip file includes an individual PDF for each video lecture playlist. ORCCA Part-1 Video Lecture Outlines. 201904.zip ORCCA Part-2 Video Lecture Outlines. 201904.zip ORCCA Part-3 Video Lecture Outlines. 201904.zip Contributed Ancillary Materials (Worksheets, Lecture Notes, Etc.) Instructors using ORCCA (form PCC and elsewhere) are welcome and invited to share supporting materials here. Since ORCCA generally has exercise parity (e.g. #19 and #20 are the same exercise with different random details) faculty who want published answers may assign odd-numbered exercises and not miss out on content covered in an even-numbered exercise. Video Playlists: The HTML version of ORCCA has a YouTube video playlist at the top of almost every section. Fall term has an additional week of class. For a fee, the Mathematical Association of America will provide 6 months of access to a WebWork course. For that, use a URL with the following structure. Under this license, any user of this textbook or the textbook contents must provide proper attribution as follows. That would be a URL with the following structure. Note the playlist ID is at the end. common need would be to embed the playlist in something else. In either case, you may of course customize by adding, removing, or editing exercises. Section Exercises Counton-WW1.11, 3, 9, 11, 13, 15, 17, 21, 25, 37, 41, 45, 47, 49, 53, 57, 65, 71, 73, 77, 81, 85, 89, 93, 97, 101, 105, 109, 113, 117, 121, 125, 129, 133, 137, 141, 145, 149, 153, 157, 161, 165, 169, 173, 177, 181, 185, 189, 193, 197, 201, 205, 209, 213, 217, 221, 225, 229, 233, 237, 241, 245, 249, 253, 257, 261, 265, 269, 273, 277, 281, 285, 289, 293, 297, 301, 305, 309, 313, 317, 321, 325, 329, 333, 337, 341, 345, 349, 353, 357, 361, 365, 369, 373, 377, 381, 385, 389, 393, 397, 401, 405, 409, 413, 417, 421, 425, 429, 433, 437, 441, 445, 449, 453, 457, 461, 465, 469, 473, 477, 481, 485, 489, 493, 497, 501, 505, 509, 513, 517, 521, 525, 529, 533, 537, 541, 545, 549, 553, 557, 561, 565, 569, 573, 577, 581, 585, 589, 593, 597, 601, 605, 609, 613, 617, 621, 625, 629, 633, 637, 641, 645, 649, 653, 657, 661, 665, 669, 673, 677, 681, 685, 689, 693, 697, 701, 705, 709, 713, 717, 721, 725, 729, 733, 737, 741, 745, 749, 753, 757, 761, 765, 769, 773, 777, 781, 785, 789, 793, 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