Domain and range worksheet algebra 1

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Algebra 2: Unit #6 (6.8 NOTES) 6.8 Graphing Radical Equations, Solving by Graphing Block: Big Idea: The graph of a radical function is made by a series of transformations to the parent functions $y = \sqrt{x}$ or $y = \sqrt[3]{x}$. These values (a, h, k) to the same transformations on quadratics and reciprocal functions. Quadratic Function: $y = a(x - h)^2 + k$ Reciprocal Function: $y = \frac{a}{x-h} + k$ Square Root Function: $y = a\sqrt{x - h} + k$ Cube Root Function: $y = a^{3}\sqrt{x - h} + k$ Recall: What transformations do the values a, h, and k do to the parent function? Be specific, include direction! To graph radicals, translate the points of the parent function. Remember the order matters: "ABC Order!" Reflection (across x-axis) → Stretch/Compression → Translation (shifting horizontal/vertical) <u>Part I: Graphing Square Root Functions:</u> The parent function $y = \sqrt{x}$ is graphed. Use a different color to graph each transformed function. Identify the domain and range for each! a. $y = \sqrt{x - 3}$ b. $y = \sqrt{x+4}$ c. $y = \sqrt{x} - 7$ d. $y = \sqrt{x} + 5$ c. $y = -2\sqrt{x}$ Domain: f. $y = \frac{1}{2}\sqrt{x}$ g. $y = -3\sqrt{x+2} + 5$ Range: Domain: Writing: How do the domain and range of square root functions relate to the transformations? How can you tell the domain and range from the rule without graphing? Name Worksheet: Domain and Range

8th Grade CCSS 8.EE.C.7

Solving Linear Equations (C)



Solve the following equations. Some questions will have negative, fraction or decimal answers. Section A

- 1) 4x + 10 = 30
- 4) 9+4x=-15
- 7) 5+10x=-15
- 11) 25 = 46 3x

- 2) 4x 8 = 20
- 5) 14 + 6x = 2 8) 10 = 7 x
- 12) 8 = 9 5x

- 3) 5 + 2x = 65
- 6) 2x 3 = -2
- 9) -3 = 16 x
- 10) -4 = 12 2x

- Section B

- 1) $\frac{x}{2} + 11 = 19$ 4) $3 = \frac{x}{4} 3$ 7) $-1 = 6 + \frac{x}{2}$ 10) $\frac{x + 5}{3} = 12$ 2) $\frac{x}{7} 6 = 1$ 5) $7 = \frac{x}{2} 4$ 8) $14 \frac{x}{3} = 10$ 11) $\frac{x 4}{11} = 9$ 3) $12 + \frac{x}{5} = 20$ 6) $-2 = \frac{x}{8} 5$ 9) $5 \frac{x}{9} = -1$ 12) $\frac{x + 3}{8} = -2$

- Section C
- 1) 3(x+2)=15 5) 5(4x-3)=11 9) 2(3x-1)+3=21

- 3) 6(x-9)=12
- 6) -3(2x+1)=21 10) 2(x+1)+3x=377) -9(x-4)=54 11) 12+4(2x+4)=688) 7(x-4)-3=46 12) 3x-2(6x-3)=42
- 4) 2(3x+5)=-44

2) 2(x+5)=24

- Section D
- 9) 2-4x=6x

- 1) x + 8 = 3x2) 6 + x = 2x
- 6) 9x + 13 = 7x7) 12x-5=7x
- 10) 4(x+3)=7x

- 3) 10 + x = 6x
- 8) 5-2x=8x

5) 4x + 7 = 6x

11) 5 (2x-1) = 16x

- 4) 3x-24=5x
- 12) 3(6x+4)=2x

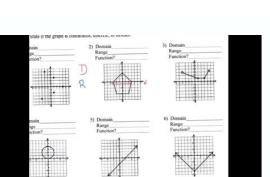
- Section E
- 1) 9x + 2 = 4x + 12
- 5) 7 + x = 13 + 4x6) 5x-3=2x+6
- 9) 4x-21=6x-3

- 2) 5x+4=31+2x3) 12+3x=8x+3
- 7) 5x-6=18-3x
- 10) x-3=1+7x

- 4) 20+2x=6+9x
- 8) 8-2x=4-6x
- 11) 9x-5=7-4x12) -8x+4=-26x+1

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Algebra . 8th Grade . Equations . Solving Linear Equations (C)



ple Fraction Division 1 h Worksheet 1		Name: Answer Key
Solve the frac	ction problem and reduce the	answer to simplest form:
$\frac{1}{5} \div \frac{2}{3} = \frac{1}{5} \times \frac{3}{2} \left(\left(\left(\frac{1 \times 3}{5 \times 2} \right) \right) \right)$	> 3 10	
$\frac{2}{5} \div \frac{1}{2} = \frac{2}{5} \times \frac{2}{1} \stackrel{?}{\bigcirc} \frac{2 \times 2}{5 \times 1} \stackrel{?}{\bigcirc}$	> 4/5	
$\frac{3}{4} + \frac{3}{5} = \frac{3}{4} \times \frac{5}{3} \implies \frac{1}{4} \times \frac{5}{3}$		
$\frac{2}{4} \div \frac{1}{3} \equiv \frac{2}{4} \times \frac{3}{1} \stackrel{?}{\bigcirc} \frac{2 \times 3}{4 \times 1} \stackrel{?}{\bigcirc}$	$\frac{6}{4}$ $1\frac{2}{4}$ $1\frac{1}{2}$	
$\frac{1}{2} \div \frac{2}{3} = \frac{1}{2} \times \frac{3}{2} \implies \frac{1 \times 3}{2 \times 2}$	3 4	
$\frac{1}{3} + \frac{3}{5} = \frac{1}{3} \times \frac{5}{3} \implies \frac{1 \times 5}{3 \times 3} \implies$) <u>5</u>	
$\frac{1}{4} \div \frac{2}{3} = \frac{1}{4} \times \frac{3}{2} \left(\left(\left(\frac{1 \times 3}{4 \times 2} \right) \right) \right)$	> 3 8	
$\frac{1}{2} + \frac{2}{3} = \frac{1}{2} \times \frac{3}{2} \implies \frac{1 \times 3}{2 \times 2}$	> 3/4	
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This compilation of domain and range worksheet pdfs provides 8th grade and high school students with ample practice in determining the domain or the set of possible input values (y) using a variety of exercises with ordered pairs presented on graphs and in table format. Find the domain and range of relations from mapping diagrams, from finite and infinite graphs and more. Get started with our free worksheets. Write the Domain and Range | Relation and write the domain and range in each of the relations presented in these relations presented in the prese (x) and range (y) values in set notation. Write the Domain and Range | Relation - Table This batch presents the ordered pairs in tables with input and output columns. Identify the domain and range and write them in ascending order for each of the tables featured in these domain and range pdf worksheets. Write the Domain and Range | Finite Graph Observe the extent of the graph horizontally for the domain and the vertical extent of the graph for range and write the smallest and largest values of both in this set of identifying the domain and Range | Infinite Graph Bolster skills in identifying the domain and range of functions with infinite graphs. Analyze each graph, write the minimum and maximum points for both domain and range. If there is no endpoint, then it can be concluded it is infinite. Write the Range | Function Rule - Level 1 In this set of pdf worksheets, the function rule is expressed as a linear function and the domain is also provided in each problem. Plug in the values of x in the function rule to determine the range | Function Rule - Level 2 Substitute the input values or values of the domain in the given quadratic, polynomial, reciprocal or square root functions and determine the output values or range in this section of Level 2 exercises. Write the Domain and Range | Function - Mixed Review Test skills acquired with this printable domain and reciprocal functions f(x). Determine the domain (x) and plug in the possible x-values to find the range (y). Here is a graphic preview for all of the Algebra 1 Worksheet Sections. You can select different variables to customize these Algebra 1 Worksheets for your needs. The Algebra 1 Worksheets to use in the classroom or at home. We have twelve different topics covering Basic Skills, Domain and Range, Equations, Exponents, Inequalities, Linear Functions, Polynomials, Quadratic Functions, Radical Expressions, Systems of Equations, Trigonometry, and Work Problems for your use. Our Algebra 1 Worksheets are free to download, easy to use, and very flexible. These Algebra 1 Worksheets are a good resource for students in the 5th Grade through the 8th Grade. Click here for a Detailed Description of all the Algebra 1 Worksheet Section. Basic Skills Worksheet Sections. 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