Completing the square quadratics worksheet

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This Punnett square practice worksheet follows Mendelian rules, and is appropriate for middle school students, freshman, or sophomores. To complete the worksheet, students will need a basic understanding of Punnett squares, genotype, phenotype, homozygous traits, heterozygous traits, dominant traits, and recessive traits. To purchase my Punnett square worksheet packet, click here.For a lesson on Punnett squares, check out my Mendelian Punnett Squares Google Slides Lesson & QuizPage 2Enjoy this FREE seasonal math mosaic :) Merry Christmas!Harness the motivating power of collaboration while maintaining individual accountability! Every students worksheet is different, yet similar in the type of problems asked. When students answer all the math problems, they use their answers to colour-by-number their small section of the larger mosaic! Problems include solve-by-factoring (simple trinomials, complex trinomials, common factor first, rearrange-first, quadratic formula, and quPage 36 pages total, with 15 problems:Step-by-step instructions, answer sheets, cited works, and extra background information. Depending on the age of the students, it may take 30 minutes to teach and an additional 30-90 minutes for the students to complete.This is a form of old trees-and-tents logic puzzles, which probably originated in the Dutch magazine “Brein Brekers.” *On the front of each machine, each dial needs a lever installed in a grid square next to it -- left, right, over or under, not dPage 4This resource contains two age-appropriate worksheets on length and height for older Special Education students.You may also be interested in:Length and Height Workbook - Special Education MathThis math resource has been designed for Special Education students. It contains an age-appropriate, 22-page workbook (22 worksheets) with progress check, certificate of achievement and answers on length and height.Comparing lengths and heightsUsing the words long, longer, longest, short, shorter, shortestPage 5This is a fun worksheet to get students to review the names of the toys and identify the colours. This exercise will allow students to review 10 colours : yellow, green, orange, blue, purple, pink, brown, black, white and grey. They'll also review 9 different toys: train, plane, car, dinosaur, robot, doll, ball, bus and teddy bear.The objective is to get them to look at the red circle with the number in it. If the circle shows the number 2, they need to identify 2 colours on the toy and write iPage 6Have a blast practicing classifying quadrilaterals! This Doodle Math activity is entirely self-contained and zero prep, perfect as a review lesson, homeschool activity, or emergency sub plan. And if your students liked color by number or color by code activities, they'll LOVE this!The problems encompass parallelograms, rhombuses, rectangles, squares, and trapezoids – we've included an added bonus— a sketch notes on quadrilaterals that you can print out for your students if they need it! There arPage 7NO PREP activity for learning even numbers under 100. Students will color in the even squares starting in the top left corner. They will move up, down, left, or right to complete a path to the other star. Quick, easy and effective for reinforcing that odd numbers end in 1, 3, 5, 7, and 9. If you use this, please leave a review, it would mean the world to me! Thank you!Page 8This 3rd grade Geometry 3.6A 3.6B, TEKS-aligned GAME can be used instead of worksheets, for a lesson, or vocabulary review activities. NO-PREP, just PRINT and GO!Digital and PrintableIncluded TEKS:3.6A classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language3.6B use attributes to recognize rhombuses, parallelograms, trapezoids, rectangles, and squares as examples oPage 9Explore identity and promote diversity in your Second Grade, Third Grade, or Fourth Grade classroom with this FREE social justice resource that encourages your students to take a look at the beauty and diversity of different types and styles of hair.**This is a FREE resource that serves as a sample of the larger unit, which is available for purchase here.**This product was developed as part of the Teachers Pay Teachers Teach for Justice Grant. The objective of this unit is to guide students throFun and Engaging!!Even high school students LOVE to color. It's relaxing and therapeutic.It's a group effort! Every student's contribution counts.Tell them what the resulting picture is, OR let them guess as the pieces come together.Best for:Algebra 2 (on-level and advanced)Precalculus (on-level and advanced) How It Works:Each of the 32 unique worksheets has 10 equations for the student to solve: 4 easy problems, 4 moderately challenging problems, and 2 difficult problems. Students match the scTypes:Thanksgiving Speech Therapy Games: Don't Eat Tom!by Two delicious open-ended Thanksgiving or Christmas speech and language activities to teach holiday food vocabulary or any other skill. These adorable games can be used in multiple ways, plus you get 5 different language Quick Lists to individualize for your students.I am so very thankful for all of my sweet followers here and on my blog, so I am posting this fun little freebie to say thank you! (Love my peeps!) Please leave feedback after downloading, so I can see who's stopped by. I'm feeling tThis FREEBIE sampler features the four bonus boards from each of the Area and Perimeter Math Tile Bundle. The four boards show metric version, customary version, then a metric challenge version and customary challenge version. The bundle has 6 games (1 is a decimal version of the same game) for $6.50 each, or $39.00 for all. It is $28.00 in the bundle. Sampler of Area ad Perimeter Math Tile Games FREEBIEMatch the ten tiles to their answers on the game boards, then use the numbers to decodshowing 193-202 of 180+ results Completing the square in a quadratic expression with unitary \(x^2\) coefficient Explanation: We need to be able to write quadratics of the form \(x^2+bx+c\) in the form \(\left(x+p\right)^2+q\), where \(b\) and \(c\) will be integers but \(p\) or \(q\) might be fractions. \(\left(x+p\right)^2=x^2+2px+p^2\). The coefficient of \(x\) is double \(p\) and the constant term is the square of \(p\). After we complete the square, the letter \(x\) appears only once. This makes it easy to graph the parabola. Express \(x^2+10x+28\) in the form \(\left(x+p\right)^2+q\) Look at the coefficient of \(x\). It is 10. We halve it to get 5 and then square that. So 52 = 25.We are going to add this 25 into the expression but then immediately subtract it out again. That might seem like a strange thing to do, but it will give us the perfect square that we need. $$ \begin{eqnarray} &\ & x^2+10x+28 \\[6pt] &=&\ x^2+10x+25-25+28 \\[6pt] &=&\ (\underbrace{x^2+10x+25}_{\textsf{a perfect square}})-25+28 \\[6pt] &=&\ (x+5)^2+3 \end{eqnarray} $$ Example 2 Express \(x^2+6x+1\) in the form \(\left(x+a\right)^2+b\) The coefficient of \(x\) is 6. We halve this to get 3 and then square that: 32 = 9.We add this 9 into the expression but then immediately subtract it out again. The first three terms will be our perfect square. $$ \begin{eqnarray} &\ & x^2+6x+1 \\[6pt] &=&\ x^2+6x+9-9-1 \\[6pt] &=&\ (\underbrace{x^2+6x+9}_{\textsf{a perfect square}})-9+1 \\[6pt] &=&\ (x+3)^2-8 \end{eqnarray} $$ Example 3 Express \(x^2-2x+5\) in the form \(\left(x+m\right)^2+n\) The coefficient of \(x\) is -2. We halve this to get -1 and then square that: (-1)2 = 1.We add this 1 into the expression but then immediately subtract it out again. $$ \begin{eqnarray} &\ & x^2-2x+5 \\[6pt] &=&\ x^2-2x+1-1+5 \\[6pt] &=&\ (\underbrace{x^2-2x+1}_{\textsf{a perfect square}})-1+5 \\[6pt] &=&\ (x-1)^2+4 \end{eqnarray} $$ Example 4 Express \(x^2-4x-9\) in the form \(\left(x+a\right)^2+b\) The coefficient of \(x\) is -4. We halve this to get -2 and then square that: (-2)2 = 4.We add this 4 into the expression but then immediately subtract it out again. $$ \begin{eqnarray} &\ & x^2-4x-9 \\[6pt] &=&\ x^2-4x+4-4-9 \\[6pt] &=&\ (\underbrace{x^2-4x+4}_{\textsf{a perfect square}})-4-9 \\[6pt] &=&\ (x-2)^2-13 \end{eqnarray} $$ Example 5 Express \(x^2+5x-1\) in the form \(\left(x+p\right)^2+q\) This example is trickier because the coefficient of \(x\) is odd. One like this hasn't yet appeared in a National 5 exam paper, but the course specification says that the coefficient can be any integer, so be prepared! We halve the \(5\) to get \(\frac{5}{2}\) and then square that: \((\frac{5}{2})^2=\frac{25}{4}. \)So we add the \(\frac{25}{4}\) into the expression and then immediately subtract it out again. $$ \begin{eqnarray} x^2+5x-1 &=&\ x^2+5x+\small\frac{25}{4}ormalsize-\small\frac{25}{4}ormalsize-1\\[6pt] &=&\ \large(ormalsize\underbrace{x^2+5x+\small\frac{25}{4}ormalsize}_{\textsf{a perfect square}}\large)ormalsize-\small\frac{25}{4}ormalsize -1\\[6pt] &=&\ \left(x+\small\frac{5}{2}ormalsize\right)^2-\small\frac{25}{4}ormalsize-\small\frac{4}{4}ormalsize\\[6pt] &=&\ \left(x+\small\frac{5}{2}ormalsize\right)^2-\small\frac{29}{4}ormalsize \end{eqnarray} $$ Example 6 Express \(x^2-9x+3\) in the form \(\left(x+p\right)^2+q\) We halve the \(-9\) to get \(-\frac{9}{2}\) and then square that: \((-\frac{9}{2})^2=\frac{81}{4}. \)So we add the \(\frac{81}{4}\) into the expression and then immediately subtract it out again. $$ \begin{eqnarray} x^2-9x+3 &=&\ x^2-9x+\small\frac{81}{4}ormalsize-\small\frac{81}{4}ormalsize+3\\[6pt] &=&\ \large(ormalsize\underbrace{x^2-9x+\small\frac{81}{4}ormalsize}_{\textsf{a perfect square}}\large)ormalsize-\small\frac{81}{4}ormalsize +3\\[6pt] &=&\ \left(x-\small\frac{9}{2}ormalsize\right)^2-\small\frac{81}{4}ormalsize+\small\frac{12}{4}ormalsize\\[6pt] &=&\ \left(x-\small\frac{9}{2}ormalsize\right)^2-\small\frac{69}{4}ormalsize \end{eqnarray} $$ Example 7 Find the coordinates of the turning point of the graph of \(y=x^2-8x+5\). The coefficient of \(x\) is \(-8\) so we first calculate \((\frac{-8}{2})^2=(-4)^2=16\). Then we complete the square: $$ \begin{eqnarray} x^2-8x+5 &=&\ x^2-8x+16-16+5\\[6pt] &=&\ (x^2-8x+16)-16+5\\[6pt] &=&\ (x-4)^2-11 \end{eqnarray} $$ Now it is easy to state the coordinates of the turning point, because perfect squares like \((x-4)^2\) can never be negative. The smallest they can ever be is \(0\). In this example, \((x-4)^2=0\) when \(x=4\). Finally, when \(x=4\), we can just read off from the formula that \(y=-11\). So the turning point is \((4,-11)\). ⇦ Nat 5 topic list ⇧ Top of this page

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