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Angles parallel lines and transversals practice worksheet

Issue 1 :Identify the pairs of angles in the diagram. Then make a guess about your angular measurements. Problem 2 :In the figure given below, let lines l1 and l2 be parallel and m is transverse. If $\angle F$ is 65o, look for the measurement of each of the remaining angles. Issue 3 :In the figure below, let lines l1 and l2 be parallel and t is cross-sectional. Find the value of 'x'. Issue 4 :In the figure below, let lines l1 and l2 be parallel and t is cross-sectional. Find the value of 'x'. Detailed response key issue 1 : Identify the pairs of angles in the diagram. Then make a guess about your angular measurements. Solution : Vertically opposite angles are the same. $\angle 1$ to $\angle 3$ $\angle 2$ to $\angle 4$ $\angle 5$ to $\angle 7$ $\angle 6$ to $\angle 8$ The corresponding angles are equal. $\angle 1$ to $\angle 5$ $\angle 2$ nd $\angle 6$ $\angle 3$ x $\angle 7$ $\angle 4$ x $\angle 8$ Alternative inner angles are equal. $\angle 3$ rd $\angle 5$ $\angle 4$ th $\angle 6$ Alternative outer angles are the same. $\angle 1$ st $\angle 7$ $\angle 2$ nd $\angle 8$ Consecutive inner angles are additional. $\angle 3$ + $\angle 6$ x 180o $\angle 4$ + $\angle 5$ x 180o The outer angles on the same side are supplementary. $\angle 1$ + $\angle 8$ x 180o $\angle 2$ + $\angle 7$ x 180o Problem 2 :in the figure below, let lines l1 and l2 be parallel and m transverse. If $\angle F$ is 65o, look for the measurement of each of the remaining angles. Solution : From the given figure, $\angle F$ and $\angle H$ are vertically opposite angles and are equal. Then the $\angle H$ to $\angle F$ -----> $\angle H$ at 65 $\angle H$ and $\angle D$ are the corresponding angles and are equal. Then the $\angle D$ to $\angle H$ -----> $\angle D$ to 65 $\angle D$ and $\angle B$ are vertically opposite angles and are equal. Then the $\angle B$ to $\angle D$ -----> $\angle B$ at 65o $\angle F$ and $\angle E$ together form a right angle. Next, we have $\angle F$ + $\angle E$ at 180o Desachufe $\angle F$ at 65o $\angle F$ + $\angle E$ at 180o 65o + $\angle E$ at 180o $\angle E$ at 115o $\angle E$ and $\angle G$ are vertically opposite angles and are equal. Then the $\angle G$ to $\angle E$ -----> $\angle G$ at 115 or $\angle G$ and $\angle C$ are the corresponding angles and are equal. Then the $\angle C$ to $\angle G$ -----> $\angle C$ at 115 oC \angle and $\angle A$ are vertically opposite angles and are equal. Then go $\angle A$ to $\angle C$ -----> $\angle A$ to 115o, therefore $\angle A$ $\angle C$ $\angle E$ $\angle G$ 115oC \angle $\angle D$ $\angle F$ $\angle H$, problem 3: In the figure below, let the lines l1 and l2 be parallel and t is transverse. Find the value of 'x'. Solution : From the given figure, $\angle (2x + 20)$ and $\angle (3x - 10)$ are corresponding angles. Therefore, they are the same. Next, we have $2x + 20$ x $3x - 10$ 3o x to 30o Problem 4 :In the figure below, let the lines l1 and l2 be parallel and t is transverse. Find the value of 'x'. Solution : From the given figure, $\angle (3x + 20)$ and $\angle 2x$ are consecutive inner angles. Therefore, they are supplementary. Next, we have $3x + 20 + 2x$ to 180 x $5x + 20$ x 180 x $5x + 20$ x 160 x $32o$, x to $32o$ Apart from the things given above, if anything else in math, please use our custom google search here. If you have any comments about our math content, please email us : v4formath@gmail.com We always appreciate your feedback. You can also visit the following websites about different things in mathematics. WORD PROBLEMSHCF and LCM Word problems Word problems in simple equations Word problems in linear equations Quadratic quadratic word problems Word problems Drafting problems in trainsHedrea and word perimeter problemsWith direct drafting problems and reverse variation Word problems in unit price problems in unit rate Word problems compared to ratesConvert common units word problemsss Convert metric units Word issues into simple interestWord problems in compound interestWord Wordmes in complementary angle types and supplementary word problemsAll facts word problemsRequisor word problems Word problems Problems of loss and loss Branding and word marking Decimal word problems Word problems in fractions Problems writing in fractures andsen mixedA step equation word problemsArticles problems of the word Problemsratio and proportion of word problemsSinc Word word word processing Problems Problems in sets and diagrams of veninaScenes in agesTasty length Word problemsPercents of words Word problems in medium speed Word problems Word problems In the sum of angles of a triangle is 180 degreeOS TOPICS, shortcuts of speed and distanceRatio and proportion shortcutsDomain and range of rational functionsDomain and range of rational functions with holesGraphy rational functionsGraphy rational functions with holesConvert repetitive decimals into fractionsDidation of rational numbersFiber The square root using the longL split.C.M method to solve time and work problemsTranslation of the word problems in algebraic expressionsRemainder when 2 power 256 is divided by 17Remainder when 17 power 23 is divided by 16Sum of the three digit numbers divisible by 6Sum of the three digit numbers divisible by 7Sum of the three-digit numbers divisible by 8Sum of the three-digit numbers formed using 1, 3, 4Sum of the three four-digit numbers formed with non-zero digitsSum of the three four-digit numbers formed using 0, 1, 2, 3Sum of the three four-digit numbers formed using 1, 2, 5, 6 copyright onlinemath4all.com! Explore this matrix of free printable worksheets to learn the main results of angles formed by parallel lines cut by a cross section. The theme focuses mainly on concepts such as alternate angles, angles on the same side, and corresponding angles. Equipped with free worksheets on identifying angular relationships, finding the measurements of the inner and outer angles, determining whether the given pairs of angles are supplementary or congruent, and more, this set is a must-have for your practice to thrive. Worksheets are ideal for 8th-year-olds and ninth grade. CCSS: 8.G.5 When parallel lines are cut or intersected by a transverse, many interesting geometric things. One thing my students like is that cross-sections make it very easy to find measurements of all the angles involved. We begin our study of parallel and transverse lines, simply identifying the different types of angles that are formed. En En Worksheet will identify the corresponding angles (angles at the same point at each intersection), vertical angles (back to back), alternate interior angles (inner angles at alternate points), and alternate outer angles (outer angles at alternate points). Eventually, you will use your knowledge of the angles formed by parallel and transverse lines to configure and solve equations for missing angles. By the time you're done, you'll be an expert in geometry and algebra! Identification of angles formed by parallel & transverse lines Worksheet 1 - This angle worksheet has 6 different problems where parallel lines intersect through a transversal. You will identify all angles formed by this intersection as angles, vertical angles, alternate interior angles, or alternate outer angles. Angle Identification Worksheet 1 RTF Angle Identification Worksheet 1 Pdf View responses Measuring angles formed by parallel lines & Transverals Worksheet 2 - This angle worksheet presents 8 different problems where parallel lines intersect a transversal. You will be given the measurement of one of the angles in each problem, then use your knowledge of parallel and cross lines to find measurements of the remaining angles. Angle Measurement Worksheet 2 RTF Angle Measurement Worksheet 2 PDF View Responses Measuring Angles Formed by Parallel Lines & Transverals Worksheet 3 - This angle worksheet features 6 different exercises where parallel lines intersect a transversal. You'll find vertical angles, alternate angles, and corresponding angles as you look at the angles represented by expressions such as $4x$ and $2x + 10$. You will use these expressions to resolve to x and calculate the measurement of each missing angle. Angle Measurement Worksheet 3 RTF Angle Measurement Worksheet 3 PDF View responses Measuring angles formed by parallel lines & Transverals Worksheet 4 - Here is a little more practice with finding the measurement of missing angles. This worksheet is very similar to the previous worksheet Angle Measurement. I thought you might need more practice setting up and solving equations to find the missing angles. Angle Measurement Worksheet 4 RTF Angle Measurement Worksheet 4 PDF View responses Measuring angles formed by parallel lines & Transveral Worksheet 5 - This angle worksheet has 8 different problems in which you will see angles that are complementary, rather than congruent. These consecutive angles are still represented by algebraic expressions. I suggest you set equations and solve for x . After that, reconnect the value of x to the to find the measurement of each missing angle. Angle Measurement Worksheet 5 RTF Angle Measurement Worksheet 5 PDF View Responses Measuring Angles Formed by Parallel Lines & Transverals Worksheet 6 - This angle worksheet presents 8 different problems where parallel lines intersect a transversal. These angles are a mixture of congruent and supplementary angles represented by You should do it right. Angle Measurement Worksheet 6 RTF Angle Measurement Worksheet 6 PDF View Answers Answers