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| Year  7 | | *Angle Properties* | Non Calculator  Section |
| **Skills and Knowledge Assessed:**   * Use the language, notation and conventions of geometry. * Recognise the geometric properties of angles at a point. * Identify corresponding, alternate and co-interior angles when two straight lines are crossed by a transversal (ACMMG163) * Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning (ACMMG164) | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Answer all questions in the spaces provided on this test paper by:**  ***Writing the answer in the box provided.***  **or**  ***Shading in the bubble for the correct answer from the four choices provided.***  **Show any working out on the test paper.**  ***You will need a protractor.*** | | | |
|  | The angle marked could be labelled as : | | |
|  | What are the sizes of the two angles  respectively?  87o and 139o.  116o and 93o.  116o and 105o.  116o and 139o. | | |
|  | Name a pair of equal angles in the hexagon shown? | | |
|  | Complete the statement below.    Angles of 64o and o are complementary angles. | | |
|  | Which is an accurate description of the diagram?    and  are a pair of adjacent, complementary angles.  and  are a pair of alternate, complementary angles.  and  are a pair of adjacent, supplementary angles.  and  are a pair of alternate, supplementary angles. | | |
|  | Use a protractor to measure the size of | | |
|  | In which diagram are there a pair of vertically opposite angles marked | | |
|  | Find the value of *x* in the diagram. | | |
|  | What is the size of  ?  18o  45o 72o 162o | | |
|  | Three pieces of timber in a building join at a point as shown.  What is the value of *x*?  *x =* o | | |
|  | The lines *PQ* and *RS* intersect at *T.*    Which is true? | | |
|  | Calculate the size of | | |
|  | Which diagram shows a pair of equal corresponding angles? | | |
|  | What is the value of *x*? | | |
|  | Find the value of *k*. | | |

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| Year  7 | | *Angle Properties* | Calculator Allowed  Short Answer  Section |
|  | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Answer all questions in the spaces provided on this test paper by:**  ***Writing the answer in the box provided.***  **or**  ***Shading in the bubble for the correct answer from the four choices provided.***  **Show any working out on the test paper. Calculators are allowed.** | | | |
|  | The angles marked andcould be described as : | | |
|  | Which is true about an angle of ?  Its complement is 55o.  It is an acute angle.  Its supplement is 55o.  It is a straight angle. | | |
|  | In which diagram are  unequal, supplementary angles? | | |
|  | Which statement is correct? | | |
|  | Through how many degrees does the minute hand of a clock move between 12:00 noon and 12:20 pm on the same day?  20o 60o  100o 120o | | |
|  | What is the size of the shaded angle?  21o 69o  111o 159o | | |
|  | Use the correct symbols to mark a pair of parallel lines and a right angle on the diagram. | | |
|  | *z =?*  45o  87o  183o  273o | | |
|  | Find the size of. | | |
|  | Find the size of | | |
|  | Which is true ? | | |
|  | What is the value of *q*? | | |
|  | The diagram shows part of a roof structure.  The top and bottom timbers are parallel.  What is the value of *v*?  *v* = | | |
|  | *AB* and *CD* are straight lines which intersect at *G*.    What is the value of *u*? | | |
|  | Find the value of *g*. | | |

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| Year  7 | *Angle Properties* |

ANSWERS

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| Non Calculator Section |

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|  |  |
|  | 116o and 139o. |
|  |  |
|  | 26 |
|  | and  are a pair of adjacent, supplementary angles. |
|  | 128o |
|  | The third one |
|  | *x* = 113 |
|  | 72o |
|  | *x* = 129o |
|  |  |
|  | 130o |
|  | The third one. |
|  |  |
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| Calculator Allowed Section |

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|  |  |
|  | Its supplement is 55o |
|  | The second one. |
|  |  |
|  | 120o |
|  | 69o |
|  |  |
|  | 87o |
|  | 67o |
|  | 76o |
|  |  |
|  | 43o |
|  | 56o |
|  |  |
|  |  |