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| Year  9 | | Coordinate Geometry Practice Test | | Non Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper. | | | |
| 1. | What is the gradient of the line joining A (2, 3) and B (-1, -3).  ......................................................................  ......................................................................    ......................................................................  ...................................................................... | | | |
| 2. | Which point, *P* or *R,* is closest to the origin *O*. What is its distance from *O* correct to one decimal place?  ......................................................................  ......................................................................    ......................................................................  ...................................................................... | | | |
| 3. | A parallelogram has vertices at E, F, G and H. What are the coordinates of H?  ......................................................................  ......................................................................    ......................................................................  ...................................................................... | | | |
| 4. | What is the length of the line segment joining *A*(-2, 6) and *B* (5, -2), shown?  ...................................................................  ...................................................................  ...................................................................  ................................................................... | | | |
| 5. | What is the gradient of the line whose equation is  ?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 6. | Calculate the midpoint of the line segment *AB*, where *A* is (2, -5) and *B* is (7, -9).  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 7. | Which of the points *L* (-2, 2), *M* (5, -2) or *N* (7, -3) lies on the line with equation  ?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 8. | What is the length of the interval joining the points (-4, 7) and (8, 2)?  ..........................................................................................................................................................  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 9. | What is the gradient of the interval joining the points (6, -7) and (1, 3)?  ..........................................................................................................................................................  .......................................................................................................................................................... | | | |
| 10. | What is the equation of the line which has a gradient of -2 and which passes through the point (3, -2)?  ..........................................................................................................................................................  .......................................................................................................................................................... | | | |
| 11. | What is the equation of the line which passes through the points (-2, -5) and (1, -2)?  ..........................................................................................................................................................  .......................................................................................................................................................... | | | |
| 12. | The cost $*C* of sending a parcel is given by the formula  where *M* is the mass in kilograms. What is the cost of sending a parcel which has a mass of 4 kg.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 13. | The mass *M* (in tonnes) of a steel beam of length *L* is shown on the graph.  What is the equation of the line?  .........................................................  ........................................................    .........................................................  ........................................................ | | | |

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| Year  9 | | Coordinate Geometry Practice Test | | Calculator |
| Multiple Choice Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Mark all your answers on the accompanying multiple choice answer sheet, not on this Practice Test paper. You may do any working out on this Practice Test paper. Calculators are allowed for this section. | | | |
| 1. | Which point below has coordinates  (-3, -2)? | | | |
| 2. | The points *A* (2, 4) and *B* (-1, -5) lie on a line l.  The equation of the line l, is:  A.  B.  C.  D. | | | |
| 3. | The gradient of the line shown is :  A.  B.  C. 2    D. -2 | | | |
| 4. | Which is the graph of the line ?   1. B.   C. D. | | | |
| 5. | Which of the following is the equation of a line which has a gradient of -3?  A.  B.  C.  D. | | | |
| 6. | The equation  is best represented by the graph :      1  -2      2  4  A. B.      4  -2      2  4  C. D. | | | |
| 7. | What is the gradient of the line shown?  A.  B.  C.  D. | | | |
| 8. | The points *A* (-2, -1) and *B* (4, 7) are plotted on the number plane shown. What is the distance *AB*?  A. 8 units  B. 100 units  C. 14 units  D. 10 units | | | |
| 9. | Which point does not lie on the line ?    A. (-2, -10) B. (0, -2) C. (2, 6) D. ( 4, -2) | | | |
| 10. | Which equation below represents a line which has a y intercept of 4 ?  A.  B.  C.  D. | | | |
| 11. | What is the midpoint of the interval which has endpoints (-2, 4) and (-6, -1)?  A. (-2, 1½) B. (-4, 1½) C. (-2, 2½) D. (-4, 2½) | | | |
| 12. | The line with equation  has  A Gradient =  B y intercept = -2 C Gradient = - 3 D y intercept = 2 | | | |

Coordinate Geometry Practice Test

Multiple Choice Section

Answer Sheet

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completely fill the response oval representing the most correct answer.

1. A B C D

2. A B C D

3. A B C D

4. A B C D

5. A B C D

6. A B C D

7. A B C D

8. A B C D

9. A B C D

10. A B C D

11. A B C D

12. A B C D

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| Year  9 | | Coordinate Geometry Practice Test | | Calculator |
| Longer Questions | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper.  Calculators are allowed for this section. | | | |
| 1. | (a) (2 marks) Complete the table below for the lines whose equations are  and   |  |  |  |  | | --- | --- | --- | --- | |  | -1 | 1 | 2 | |  |  |  |  | |  |  |  |  |   (b) (2 marks) Draw the graph of the two lines.    (c) (1 mark) Write the co-ordinates of the point of intersection of the lines. \_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
| 2. | (a) (1 mark) Plot the points *A* (3,1) and *B* (-5,9) on the number plane below and join them .     1. (1 mark) Find the midpoint of *AB*.   ...................................................................................................................................  ...................................................................................................................................   1. (1 mark) Find the gradient of *AB*.   ...................................................................................................................................  ...................................................................................................................................   1. (1 mark) Find the length of *AB*.   ...................................................................................................................................  ...................................................................................................................................   1. (1 mark) Find the equation of the line *AB*.   ...................................................................................................................................  ................................................................................................................................... | | | |