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| Year  9 | | Area of Plane Shapes Practice Test | | Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper. | | | |
| 1. | Using  find the area of the circle shown.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | Calculate the area of the triangle shown?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 3. | A sketch of an irregular block of land is shown. Find the area of the block.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 4. | A trapezium has the dimensions shown below. What is its area?  ..................................................................................  ..................................................................................    ..................................................................................  ................................................................................... | | | |
| 5. | Find the area of the semicircle shown below.  ..................................................................................  ..................................................................................    .................................................................................. | | | |
| 6. | Harriet makes a kite using a piece of fabric with the dimensions shown. What is the area of fabric used in the kite?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 7. | A station sign is to be made from metal plate in the shape of a parallelogram. What area of metal plate is needed for the sign shown?  ............................................................................  ...........................................................................    ............................................................................ | | | |
| 8. | A paved courtyard in a garden is in the shape of a trapezium with a triangular section cut out as shown. What area of paving would be needed for the courtyard?  .........................................................................  ........................................................................    ........................................................................  ........................................................................ | | | |
| 9. | A roll of kitchen paper is 40 centimetres wide and 40 metres long. How many square metres of paper are on the roll?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 10. | A deck is to be made in the shape shown below. Find the area of the deck.  ...................................................................  ..................................................................    ...................................................................  .................................................................... | | | |
| 11. | Kayleigh designs a shape for part of a sculpture. The shape is a triangle with a rhombus cut out of it and is made from plywood. She wants to paint the piece using tubes of paint that cover 1000 cm2 per tube? How many tubes will she need to paint the piece of plywood on both sides?  ..........................................................................................................................................................    ..........................................................................................................................................................    .......................................................................................................................................................... | | | |

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| Year  9 | | Area of Plane Shapes 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. | What is the area of the circle shown?   1. 81 cm2   B. 28.3 cm2   1. 254.5 cm2 2. 56.5 cm2 | | | |
| 2. | Which shape below has the greatest area? **Drawings not to scale.**   1. B.   C. D. | | | |
| 3. | What is the area of the triangle shown?  A. 60 cm2  B. 68 cm2  C. 120 cm2  D. 127.5 cm2 | | | |
| 4. | An opening to a vent has the shape shown below. What is the area of mesh that covers the vent?     1. 0.84 m2 B. 1.20 m2 C. 1.56 m2 D. 2.40 m2 | | | |
| 5. | The shaded area shown below is :  A. 276 m2 B. 201 m2 C. 75 m2 D. 226 m2 | | | |
| 6. | The area of the sector of a circle shown below is:  A. 201 cm2  B. 34 cm2  C. 67 cm2  D. 134 cm2 | | | |
| 7. | What is the length of the base of the second triangle, if the two triangles have the same area?  **Drawings not to scale.**  A. 64 m B. 50 m C. 40 m D. 80 m | | | |
| 8. | The end of a building is in the shape shown. What is the area of the end of the building?   1. 54 m2 B. 66 m2 C. 48 m2 D. 39 m2 | | | |
| 9. | The area of the kite shown is 750 cm2 The value of *x* is :     1. 45 cm   *x* cm   1. 100 cm 2. 50 cm 3. 25 cm   30 cm | | | |
| 10. | 4 m  1 m  3 m  2 m  12 m  **Diagram not to scale**  The area of the shape shown above is  A. 31 m2 B. 39 m2 C. 36 m2 D. 33 m2 | | | |

Area of Plane Shapes 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