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| Year  8 | Practice Test – Area of Plane Shapes | **Calculator Practice Test.** |
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| 1. | A rectangle measures 0.9 m by 65mm. Its measurements in centimetres is  9 cm by 6.5 cm 9 cm by 65 cm 90 cm by 6.5 cm 90 cm by 65 cm |
| 2. | Which unit would be the most appropriate to measure the area of Australia.  Square kilometres Hectares Square metres Square centimetres |
| 3. | The area of a square field is exactly one hectare. The side length of the square is  1000 m 500 m 200 m 100 m |
| 4. | By measuring the dimensions, find the area of the shaded rectangle below.    Area = cm2 |
| 5. | Marnie marks out a rectangular garden bed with the dimensions shown below. What is the area of the bed?  Area = m2 |
| 6. | Which shape below has the greatest area? **Drawings not to scale.** |
| 7. | Ms Hills marks out the triangle below on the playground with chalk for a game. What is the area of the triangle?  Area = m2 |
| 8. | Find the area of the triangle.  **Drawing not to scale.**  Area = mm2 |
| 9. | Find the area of the parallelogram.  **Drawing not to scale.**  Area = m2 |
| 10. | The rhombus shown has an area of:  **Drawing not to scale.**  19 200 m2 9 600 m2 12 000 m2 10 00 m2 |
| 11. | A trapezium has a pair of parallel sides which measure 120 cm and 200 cm and which are 80 cm apart. The area of the trapezium is:  20 000 cm2 16 800cm2 6 400 cm2 12 800 cm2 |
| 12. | An opening to a vent has the shape shown below. What is the area of mesh that covers the vent?  Area = m2 |
| 13. | Wil builds a kite with the measurements shown. What is the area of the kite?    **Drawing not to scale.**  0.6 m2 1.2 m2 0.88 m2 1.65 m2 |
| 14. | A circle has a radius of 16 cm. What is the area of the circle to the nearest square cm?  3 217 cm2 201 cm2 804 cm2 50 cm2 |
| 15. | Find the area of the circle below (nearest mm2).  **Drawing not to scale.**  Area = mm2 |
| 16. | Mike has a rectangular block of land which is 15 m wide. He wants to plant the front with a lawn which has an area of 75 m2. How far back should the lawn be planted?  m |
| 17. | What is the length of the base of the second triangle, if the two triangles have the same area?  **Drawings not to scale.**  64 m 50 m 40 m 80 m |
| 18. | Find the value of *x* in the diagram below, if the trapezium has an area of 160 m2.  **Drawing not to scale.**  *x* = m. |
| 19. | The diagram shows the dimensions of a playground at Kilmenny HS.  What is the area of the playground?  1200 m2 1562 m2 176 m2 1650 m2 |
| 20. | The area of the sector of a circle shown below is:  **Drawing not to scale.**  201 cm2 34 cm2 67 cm2 134 cm2 |
| 21. | A courtyard is circular and is paved except for a sector which has a gravel surface. The paved section is shown below. Find the area of the paved section.  **Drawing not to scale.**  50 m2 4 m2 42 m2 46 m2 |
| 22. | DSCF6060a.jpgAn arch in Orange Botanic Gardens is made of metal sheeting and consists of linked triangles. One of the triangles is shown, with its measurements. How many square metres of metal sheeting are needed for this triangle?  0.84 m2 0.42 m2 4.2 m2 8.4 m2 |
| 23. | The end of a building is in the shape shown. What is the area of the end of the building?  54 m2 66 m2 48 m2 39 m2 |
| 24. | DSCF6134b.jpgThe pylon on the Sydney Harbour Bridge has an arch, a sketch of which is shown below along with its dimensions. What is the area of the inside of the arch (to the nearest m2)?  Area = m2 |
| 25. | A square section of a garden which measures 20 m on each side has a flower  border which is 2 m wide around the outside of a lawn. The lawn has a circular pond of diameter 6 m in the middle.  What is the area of lawn (to the nearest square metre)?  Area = m2 |