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| Year | Mathematics Test  Percentages and Financial Maths | **Calculator Allowed**  **Test** |
|  | Name |  |

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| **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.**  **or**  **Writing an answer on the lines provided.**  **Show any working out on the test paper.** | |
| 1. | Which is not equal to 24%?  0.24 |
| 2. | 2.5% when written as a decimal number is:  0.0025 0.025 0.25 2.5 |
| 3. | Write 35% as a decimal number. |
| 4. | Write 16% as a fraction in simplest form. |
| 5. | Convert the fraction  to a percentage.  % |
| 6. | What percentage of the square is shaded?  6%  12%  15%  30% |
| 7. | What percentage of the group shown at training are wearing short pants?  % |
| 8. | A computer shows the message below about its hard disk drive.  What percentage of the drive is not used?  Hard Drive C:  47% used    % |
| 9. | What is 60% of 240 kg.  4kg 14.4 kg 40 kg 144 kg |
| 10. | Calculate 25% of 576 km.  km |
| 11. | A newspaper claimed 35% of Australian vehicles have a defect.  At that time there were 24 million vehicles on Australian Roads,  How many had defects?   * 1. Million 0.8Million 6.8 million 8.4 million |
| 12. | Calculate 12.5% of $232.  $ |
| 13. | Find 18.5 % of 240. |
| 14. | 12 % of logs harvested from a state forest are used for woodchip.  There were 250 million logs harvested last year.  How many logs were used for woodchip? |
| 15. | Xanthe scores 18 baskets from 30 shots in basketball.  What percentage of her shots were baskets?  6%   60% |
| 16. | Yasmin makes 250 cupcakes for the fete and ices 150 of these.  What percentage of her cupcakes are iced?  % |
| 17. | Which list below is in ascending order? |
| 18. | Complete the two statements by writing one of the symbols >, <, or = in each box.  Statement 1  Statement 2 |
| 19. | Complete the statement below by writing a number in the box. |
| 20. | Zara correctly multiplied $450 by 1.1.  Which of the following calculations did she do?  Find 10% of 450?  Decrease $450 by 10%  Increase $450 by 10%  Increase $450 by 110% |
| 21. | Increase 300 kg by 5%.  kg. |
| 22. | Andrew offers to sell his bike for $120. Belinda tells him to decrease his price by 8%.  If he follows her advice, what price will he offer the bike for?  $ |
| 23. | Charlie gives the following advice for mixing the dry ingredients in mortar.  *Mix together 2 parts of cement, 1 part of lime and 7 parts of brickies sand.*  What percentage of the dry mix is lime?  % |
| 24. | Complete the description of the percentage composition of a mixture which by weight is made of 20kg of carbon, 450 kg of iron and 30 kg of chromium.  Carbon is % of the mixture.  Iron is % of the mixture.  Chromium is % of the mixture. |
| 25. | A quantity was increased by 20% giving a result of $600.  What was the original quantity?  $400 $500 $580 $720 |
| 26. | The GST on an article is 10% added to the price of the article when it is sold. What is the selling price of a watch whose price was $240 before GST?  $ |
| 27. | A games package for a computer costs $165 including 10% GST. What was the price before GST?  $ |
| 28. | A shoulder bag, originally priced at $80 is offered at a discount of 40%. What is the selling price after the discount is applied?  $32 $40 $48 $112 |
| 29. | Which is the better value when buying drinks? (Explain your answer)  5 litres for $4.50 compared with 3 litres for $2.75  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 30. | Eva buys stock for a patchwork shop. She paid $500 for a sewing machine, and she intends to sell it at an 80% profit. What price should she mark on the sewing machine?  $ |
| 31. | Donald bought a mini bike for his daughter for $6 000. When she grew to big for it, he sold it for $4 800. What was his percentage loss on the cost price?  % |
| 32. | Freya makes a 60% profit when she sells beads that she makes at the markets.  She sells each set of beads for $24.  What does it cost her to make each set of beads?  $ |

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