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| Year  7 | Mathematics Test  Decimals | **Non Calculator**  **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.**  **Show any working out on the test paper.** | |
| 1. | Which of the decimals below indicate the part of the circle that has been shaded?  0.2  0.25  0.34  0.75 |
| 2. | Eight students out of a school of one hundred were not in school uniform. What decimal represents the part of the school that was not in uniform?  8.0 0.8 0.08 0.008 |
| 3. | Shade a section which is 0.6 of the area of the rectangle. |
| 4. | Which numbers are represented on the number line shown?  0.3 and 1.6 0.3 and 1.7 0.4 and 1.6 0.4 and 1.7 |
| 5. | Show the position of 1.8 and 2.6 on the number line below. |
| 6. | Which is correct? |
| 7. | Which list is in ascending order? |
| 8. | Arrange the numbers below in descending order.  0.6, 0.006, 1.6, 0.65, 0.16, 0.106. |
| 9. | Write the decimal 0.24 as a fraction and reduce it to its simplest form.  0.24 = = |
| 10. | Write 0.064 as a fraction in simplest form.  0.064 = = |
| 11. | Write  as a decimal number.  = |
| 12. | Write  as a decimal number.  = |
| 13. | Which fraction below is not the same as the decimal 0.32? |
| 14. | What is the value of the 6 digit in the number 5.369?  Units Tenths Hundredths Thousandths |
| 15. | The number 0.027 could be expressed in expanded notation as: |
| 16. | Find the value of 5.6 + 1.9. |
| 17. | 18.16 + 3.254 = ?  3.4356 5.07 18.4854 21.414 |
| 18. | Andrew is loading a truck. He loads 0.28 tonnes of cement, 1.4 tonnes of sand, 0.34 tonnes of steel, 0.625 tonnes of timber and 0.05 tonnes of tools onto the truck.  What is the total mass in tonnes of the load on the truck?  tonnes. |
| 19. | 4.3 – 1.25 = ? |
| 20. | 9.15 – 2.6 = ?  6.55 7.55 8.89 8.99 |
| 21. | Kellie has 12.5 litres of water in a container. She scoops out 4.25 litres, to throw over her brother. How many litres of water are left in the container?  litres. |
| 22. | Which is the correct value of ?  0.48 0.048 0.0048 0.00048 |
| 23. | Complete the multiplication below:  0.74  0.6 |
| 24. | Josie measures out 3.24 litres of a liquid gel. Each litre weighs 1.2 kg.  What is the mass of the gel that she measured?  kg. |
| 25. | 14 1.4 0.14 0.014 |
| 26. | Complete the division below. |
| 27. | When running, Lara’s average stride length is 2.5 metres.  How many strides does she take in a 100 metre foot race?  strides. |
| 28. | Consider the two statements below.   1. When you multiply a number by 0.9, the result is smaller than the original number. 2. When you multiply a number by 1.9, the result is larger than the original number.   Which statement is true?  Statement A only is true. Both statements are true.  Statement B only is true. Neither statement is true. |
| 29. | When 3.494 is rounded correct to the nearest hundredth, the result is :  3 3.5 3.49 3.50 |
| 30. | Round 541.378 correct to 1 decimal place. |
| 31. | Kim and Lars measure the masses of the five working dogs on their property.  Work out the average mass of their dogs.  The masses (in kg) are 25.5, 18.2, 19.7, 28.6, 31.6.  Average mass = |
| 32. | Bananas are priced at $6.44 per kg.  Marcie buys 0.9 kg of bananas.  What is the cost of the bananas, rounded to the nearest cent?  $ |
| 33. | The recurring decimal  can be written as: |
| 34. | Which of the following cannot be represented as a terminating decimal: |
| 35. | Write  as a recurring decimal. |

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|  | ANSWERS |  |

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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.**  **Show any working out on the test paper.** | |
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| 2. | Eight students out of a school of one hundred were not in school uniform. What decimal represents the part of the school that was not in uniform?  8.0 0.8 0.08 0.008 |
| 3. | Shade a section which is 0.6 of the area of the rectangle.  Any 12 Sections |
| 4. | Which numbers are represented on the number line shown?  0.3 and 1.6 0.3 and 1.7 0.4 and 1.6 0.4 and 1.7 |
| 5. | Show the position of 1.8 and 2.6 on the number line below. |
| 6. | Which is correct? |
| 7. | Which list is in ascending order? |
| 8. | Arrange the numbers below in descending order.  0.6, 0.006, 1.6, 0.65, 0.16, 0.106. |
| 9. | Write the decimal 0.24 as a fraction and reduce it to its simplest form.  6  25  24  100  0.24 = = |
| 10. | Write 0.064 as a fraction in simplest form.  64  1000  8  125  0.064 = = |
| 11. | Write  as a decimal number.  =  0 74 |
| 12. | Write  as a decimal number.  =  4 4 4 |
| 13. | Which fraction below is not the same as the decimal 0.32? |
| 14. | What is the value of the 6 digit in the number 5.369?  Units Tenths Hundredths Thousandths |
| 15. | The number 0.027 could be expressed in expanded notation as: |
| 16. | Find the value of 5.6 + 1.9.  7 5 |
| 17. | 18.16 + 3.254 = ?  3.4356 5.07 18.4854 21.414 |
| 18. | Andrew is loading a truck. He loads 0.28 tonnes of cement, 1.4 tonnes of sand, 0.34 tonnes of steel, 0.625 tonnes of timber and 0.05 tonnes of tools onto the truck.  What is the total mass in tonnes of the load on the truck?  2 695  tonnes. |
| 19. | 4.3 – 1.25 = ?  3 05 |
| 20. | 9.15 – 2.6 = ?  6.55 7.55 8.89 8.99 |
| 21. | Kellie has 12.5 litres of water in a container. She scoops out 4.25 litres, to throw over her brother. How many litres of water are left in the container?  8 25  litres. |
| 22. | Which is the correct value of ?  0.48 0.048 0.0048 0.00048 |
| 23. | Complete the multiplication below:  0.74  0.6  0.444 |
| 24. | Josie measures out 3.24 litres of a liquid gel. Each litre weighs 1.2 kg.  What is the mass of the gel that she measured?  3 888  kg. |
| 25. | 14 1.4 0.14 0.014 |
| 26. | Complete the division below.  3.74 |
| 27. | When running, Lara’s average stride length is 2.5 metres.  How many strides does she take in a 100 metre foot race?  40  strides. |
| 28. | Consider the two statements below.   1. When you multiply a number by 0.9, the result is smaller than the original number. 2. When you multiply a number by 1.9, the result is larger than the original number.   Which statement is true?  Statement A only is true. Both statements are true.  Statement B only is true. Neither statement is true. |
| 29. | When 3.494 is rounded correct to the nearest hundredth, the result is :  3 3.5 3.49 3.50 |
| 30. | Round 541.378 correct to 1 decimal place.  541 4 |
| 31. | Kim and Lars measure the masses of the five working dogs on their property.  Work out the average mass of their dogs.  The masses (in kg) are 25.5, 18.2, 19.7, 28.6, 31.6.  24 72  Average mass = |
| 32. | Bananas are priced at $6.44 per kg.  Marcie buys 0.9 kg of bananas.  What is the cost of the bananas, rounded to the nearest cent?  5 80  $ |
| 33. | The recurring decimal  can be written as: |
| 34. | Which of the following cannot be represented as a terminating decimal: |
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