|  |  |  |  |
| --- | --- | --- | --- |
| Year 9 | | *Basic Number Skills* | Non Calculator |
| **Skills and Knowledge Assessed:**   * Carry out the four operations with rational numbers and integers, using efficient mental and written   strategies and appropriate digital technologies (ACMNA183)   * Investigate terminating and recurring decimals (ACMNA184) * Solve problems involving the use of percentages, including percentage increases and decreases, with  and   without digital technologies (ACMNA187) | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Section 1** Short Answer Section | | | |
| Write all working and answers in the spaces provided on this test paper. | | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ………………………………………………………………………………………………. | | |
|  | ………………………………………………………………………………………………. | | |
|  | ………………………………………………………………………………………………. | | |
|  | What is 20% of 350?  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | What is  in simplest form?    ………………………………………………………………………………………………. | | |
|  | A bus is carrying 40 passengers and 25 of these are children.  What fraction of the passengers are children?  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | What percentage is 27 of 36?  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | What is 0.265 when written as a fraction in simplest form?  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | A car which has travelled 240 km, has completed 60% of its journey.  How far does it still have to go?  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | Given that  what is the value of  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | Increase 25 litres by 8%.  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |
|  | ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Year 9 | | *Basic Number Skills* | Calculator Allowed |
| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Section 2** Multiple Choice Section | | | |
| Mark all your answers on the accompanying multiple choice answer sheet, not on this test paper. You may do any working out on this test paper. Calculators are allowed for this section. | | | |
|  | What is the value of the 6 digit in the decimal number 72.5064?  A. ten thousandths B. thousandths C. hundredths D. tenths | | |
|  | Which is the largest?  A.  B.  C.  D. | | |
|  | What is 0.45 when written as a fraction in simplest form?  A.  B.  C.  D. | | |
|  | Which fraction is **not** equivalent to  A.  B.  C.  D. | | |
|  | What is a quarter of 2.5 litres?  A. 0.5 litres B. 0.525 litres C. 0.6 litres D. 0.625 litres | | |
|  | What decimal number is the same as 65%?  A. 0.065 B. 0.65 C. 6.5 D. 65 | | |
|  | 32.5% of the contents of a bottle of fruit-drink is fruit juice.  What percentage of the contents is not fruit juice?  A. 7.5% B. 17.5% C. 65.0 % D. 67.5% | | |
|  | Write the fraction  as a percentage.  A. 68% B. 72% C. 85% D. 94% | | |
|  | There are 250 males and 150 females in a crowd.  What percentage of the crowd is female?  A. 30% B. 37.5% C. 60% D. 62.5 % | | |
|  | Evaluate  A.  B.  C.  D. 2 | | |
|  | Which number indicates the part of the figure which is shaded?  A. 0.6  B.  C.  D. 40% | | |
|  | Which set of fractions is in ascending order?  A.  B.  C.  D. | | |
|  | In a golf competition a leader board records positive or negative scores for above and below par for each hole.    What is his score on the leader board for the nine holes?  A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A store buys shirts for $25 and sells them at a profit of 28%.  What is the selling price?  A. $32.00 B. $35.00 C. $42.00 D. $53.00 | | |
|  | Which of the points represent the position of  on the number line?    A. Point *A* B. Point *B* C. Point *C* D. Point *D* | | |
|  | Decrease 12.5 kg by 20%.  A. 8.0 kg B. 10.0 kg C. 10.5 kg D. 15.0 kg | | |
|  | Which statement is **NOT** true?  A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | Tegan uses  of her allowance to pay for a download subscription which cost $25.00.  How much of her allowance does she have left?  A. $5.00 B. $10.00 C. $15.00 D. $40.00 | | |
|  | Which fraction can be written as  A.  B.  C.  D. | | |
|  | Martha buys a present at a sale which has all stock discounted by 30%.  She receives a further 5% discount off the sale price, as she is a staff member.  If the present was originally priced at $150, what did she pay for it?  A. $97.50 B. $99.75 C. $105.00 D. $115.00 | | |
|  | Louanne’s Grandma shares an amount of money between her three grandchildren.  She tells Louanne that Jayden got 40% of the total and Madeline got  of what remained.  This left $140 for Louanne.  How much did the others receive?  A. Jayden received $84 and Madeline received $56.  B. Jayden received $112 and Madeline received $98.  C. Jayden received $160 and Madeline received $100.  D. Jayden received $196 and Madeline received $78.40. | | |

*Multiple Choice Answer Sheet*

*Basic Number Skills*

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

13. A B C D

14. A B C D

15. A B C D

16. A B C D

17. A B C D

18. A B C D

19. A B C D

20. A B C D

21. A B C D

22. A B C D

23. A B C D

24. A B C D

|  |  |  |  |
| --- | --- | --- | --- |
| Year 9 | | *Basic Number Skills* | Non Calculator |
| **Section 1** Short Answer Section | | | |
| ANSWERS | | | |
| No. | WORKING | | ANSWER |
|  |  | | 639 |
|  |  | | 1 773 |
|  |  | | 42 or +42 |
|  |  | | –27 |
|  |  | |  |
|  |  | | 70 |
|  |  | |  |
|  |  | |  |
|  |  | | 4.992 |
|  |  | | 12 |
|  |  | |  |
|  |  | | 0.196 |
|  |  | | 75% |
|  |  | | 29 |
|  |  | |  |
|  |  | | 0.49 |
|  |  | |  |
|  |  | | 35 |
|  | 60% of journey = 240 km  10% of journey =  Remaining journey = 40% of journey = | | 160 km |
|  |  | | 134 |
|  |  | |  |
|  |  | |  |
|  |  | | 27 litres |
|  |  | | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year 9 | | *Basic Number Skills* | Calculator Allowed | |
| **Section 2** Multiple Choice Section | | | | |
| ANSWERS | | | | |
| No. | WORKING | | | ANSWER |
|  | The third decimal place is thousandths | | | B |
|  | A.  B.  C.  D. | | | C |
|  | 0.45 = | | | C |
|  |  | | | A |
|  | litres | | | D |
|  | 65% = | | | B |
|  | Percentage not juice = 100% - percentage which is juice  = 100 – 32.5  = 67.5% | | | D |
|  |  | | | A |
|  | There are 150+250 = 400 altogether. | | | B |
|  |  | | | A |
|  | 8 parts are shaded out of 20 | | | D |
|  | As all have 1 as numerator, the larger denominators are the smaller fractions.  So in ascending order they are | | | A |
|  |  | | | C |
|  |  | | | A |
|  |  | | | A |
|  |  | | | C |
|  | Decrease 12.5 kg by 20% | | | B |
|  |  | | | D |
|  |  | | | D |
|  |  | | | B |
|  |  | | | C |
|  |  | | | D |
|  |  | | | B |
|  | Jayden gets 40% of total, so this leaves 60%.  Madeline gets  This leaves 100 – (40+25) = 35% for Louanne who receives $140.  Since 35% = 140  1% = 140 ÷35 =$4.  Jayden gets 40%, so 40×4 = $160  Madeline gets 25% so 25 ×4 = $100 | | | C |

*Multiple Choice Answer Sheet*

*Basic Number Skills*

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

13. A B C D

14. A B C D

15. A B C D

16. A B C D

17. A B C D

18. A B C D

19. A B C D

20. A B C D

21. A B C D

22. A B C D

23. A B C D

24. A B C D