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| Year  7 | | *Fractions* | Non Calculator  Short Answer Section |
| **Skills and Knowledge Assessed:**   * Compare fractions using equivalence. Locate and represent positive and negative fractions and mixed numbers on a number line (ACMNA152) * Solve problems involving addition and subtraction of fractions, including those with unrelated denominators (ACMNA153) * Multiply and divide fractions and decimals using efficient written strategies and digital  technologies (ACMNA154) * Express one quantity as a fraction of another, with and without the use of digital technologies  (ACMNA155) | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **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.** | | | |
|  | Which pair of fractions below has the same numerator but different denominators? | | |
|  | Which pair of fractions below includes one mixed number and one improper fraction?  and   and   and   and | | |
|  | Which group below has  of the dots shaded? | | |
|  | Write the fraction that describes what part of the square is shaded. Write your answer in simplest form. | | |
|  | Complete the missing numbers to make pairs of equivalent fractions.  a)  b) | | |
|  | Kellie was asked to write four fractions that were equivalent to  Which of the four fractions she wrote below, is incorrect? | | |
|  | Write one of the symbols <, > or = in the boxes below to make true sentences.  a)  b) | | |
|  | Rewrite the numbers  in ascending order. | | |
|  | Write the reciprocal of these numbers.  a)  b) | | |
|  | Lola was trying to write  as a mixed number. She made four attempts.  Which was correct? | | |
|  | The numbers  and  are shown on the number line. What number is at the position A? | | |
|  | Mark the position of  on the number line below. | | |
|  | Write the fractions below in simplest form.  a)  b) | | |
|  | What is the answer to  in simplest form; | | |
|  | Complete, giving your answer in simplest form; | | |
|  | Find the answer to the addition, giving your answer in simplest form; | | |
|  | Complete, giving your answer in simplest form; | | |
|  | Complete, giving your answer in simplest form; | | |
|  |  | | |
|  | Complete, giving your answer in simplest form; | | |
|  |  | | |
|  | Complete, giving your answer in simplest form; | | |
|  | Simplify | | |
|  | Simplify | | |
|  |  | | |
|  | Complete, giving your answer in simplest form; | | |
|  | Simplify | | |
|  | Simplify | | |
|  | Levi travels to school by bus.  of the journey to school is on gravel roads and  of the journey is on a freeway.  The remainder of the journey is on a sealed main road.  What fraction of the journey is on the sealed main road? | | |
|  | Find  of 75 kg.  kg. | | |
|  | Martin watches a movie that runs for  of an hour.  Karen comes in after the movie has started and watches  of the movie.  What fraction of an hour does Karen spend watching the movie?  of an hour. | | |
|  | Lucy has 48 pieces of jewellery on her dresser.  of the pieces are necklaces  of them are bracelets and the rest are earrings.  How many are earrings? | | |

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| Year  7 | *Fractions* | Non Calculator  Longer Answer  Section |
|  | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Write all working and answers in the spaces provided on this test paper. | | |

|  | | **Marks** |
| --- | --- | --- |
| 1. The fraction wall below shows several equivalent fractions. | |  |
|  | 1. The fractions  are shaded on the wall.   Shade the fractions | **1** |
|  | 1. Write two other fractions which are equivalent to   ……………………………………………………………………………………. | **1** |
|  | 1. What is the value of   ……………………………………………………………………………………. | **1** |
|  | 1. What is the value of   ……………………………………………………………………………………. | **1** |
| 1. The diagram below shows Fiona’s farm which is divided into paddocks of equal size which have different uses.   Write all fractions in simplest form. | |  |
|  | 1. What fraction of the farm is taken up by the House paddock?   ……………………………………………………………………………………. | **1** |
|  | 1. What fraction of the farm is used for Horses?   ……………………………………………………………………………………. | **1** |
|  | 1. What fraction more of the farm is given to horses compared to chickens?   ……………………………………………………………………………………. | **1** |
|  | 1. How many times greater is the part of the farm given to horses than pigs?   ……………………………………………………………………………………. | **1** |

*Fractions*

ANSWERS

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| Short Answer Section |

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|  |  |
|  | and |
|  | The 2nd one. |
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|  | 1. 4 b) 28 |
|  |  |
|  | a) > b) < |
|  |  |
|  | a)  b) |
|  |  |
|  |  |
|  |  |
|  | a)  b) |
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|  | of 75 kg  kg |
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| Longer Answer Section | | |
|  |  |  |
|  | 1. (or any other which is equivalent) |  |
|  |  |  |
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|  |  |  |
|  |  |  |
|  |  |  |
|  | 1. Pigs have  Horses have   Horses have **three times** as much space. |  |