**Year 7**

**Maths Warm Up Booklet**

**Autumn 1**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Warm Up 1** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | A pack of paper has 150 sheets. 4 children each take 7 sheets. How many sheets of paper are left in the packet? |
|  | |
| List the first ten square numbers. | |

**Warm Up 2** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | Shade one quarter of this shape. |
| Here are four triangles on a square grid.  Which two are isosceles triangles? | |
| List the first ten prime numbers. | |

**Warm Up 3** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | Find of 84. |
|  | |
| List the first 8 multiples of 25. | |

**Warm Up 4** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  | Write as a decimal. |
|  | |
| List the first eight multiples of 15. | |

**Warm Up 5** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
| Write the three missing digits to make this addition correct. | Find of 28. |
|  | |
| List the first six multiples of 99. | |

**Warm Up 6** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | Write as a decimal. |
|  | |
| List the first ten prime numbers (don’t look back at when you did this before!). | |

**Warm Up 7** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | Find of £24. |
|  | |
| List the first ten square numbers (don’t look back at when you did this before!). | |

**Warm Up 8** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | Write as a decimal. |
|  | |
| List the first six cube numbers. | |

**Warm Up 9** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  | Shade of this shape. |
|  | |
| List all the factors of 12. | |

**Warm Up 10** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | Shade one third of this shape. |
|  | |
| List all the factors of 50. | |

**Warm Up 11** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  | What fraction of this square is shaded? |
|  | |
| Write three factors of 30 that are not factors of 15. | |

**Warm Up 12** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | Write as a decimal. |
|  | |
| Find two square numbers that total 45. | |

**Warm Up 13** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  | The diagram is made of squares. What fraction of the diagram is shaded? |
|  | |
| Write all the factors of 30 which are also factors of 20. | |

**Warm Up 14** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  | This diagram shows a shaded rectangle surrounded by squares. What fraction of the diagram is shaded? |
| Here is an isosceles triangle.  Calculate the size of angle . | |
| A square number and a prime number have a total of 22. What are the two numbers? | |

**Warm Up 15** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | Stefan has a bag that contains 3 blue marbles and 5 red marbles only. What fraction of the marbles in the bag are blue? |
|  | |
|  | |

**Warm Up 16** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | Write the two missing values to make these equivalent fractions correct. |
|  | |
| What number is halfway between 1.4 and 2.1? | |

**Warm Up 17** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Write in the missing digits to make this correct. | Two of the fractions below are equivalent. Circle them. |
| A and B are two numbers on the number line. The difference between A and B is 140.  Write the values of A and B. | |
|  | |

**Warm Up 18** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  |  |
|  | |
| Write all the common multiples of 3 and 8 that are less than 50. | |

**Warm Up 19** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  | Circle the number closest in value to 0.1. |
|  | |
| Write all the numbers between 50 and 100 that are factors of 180. | |

**Warm Up 20** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  |  |
|  | |
| List the common factors of 24 and 32. | |

**Warm Up 21** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  | Circle the number that is closest to 20. |
|  | |
| Write two decimals, each less than 1, which multiply to make 0.1 | |

**Warm Up 22** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  |  |
| The diagram shows a kite.  Write down the coordinates of the point D. | |
| Find the multiple of 45 that is closest to 8000. | |

**Warm Up 23** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | |
|  | |

**Warm Up 24** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
| . | What fraction is exactly halfway between and ? |
| The triangle and rectangle have the same area.  Work out the value of w. | |
| Write the three prime numbers which multiply to make 231. | |

**Bonus Puzzles**





 