

Mathematics Assessment

**Baseline Assessment**



**Calculators not allowed**

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

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Remember:

* The test is 1 hour long.
* You **must not** use a calculator for any question in this test.
* You will need: pen, pencil, rubber and a ruler.
* Try to answer all questions.
* Write all your answers and working in the spaces provided in this test paper – do not use any rough paper. Marks may be awarded for working.
* Check your work carefully.
* Don’t spend too long on one question. Leave it and try the next one.

|  |  |  |
| --- | --- | --- |
| 1. | -3 - 6 = \_\_\_\_ 4 x -3 = \_\_\_\_ | / 2 |
| 2. | Work out 3.2 x 1.7  \_\_\_\_\_ | / 3 |
| 3. | Write the value of the 5 in the number 65 498.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | / 1 |
| 4. | From the bubble above, write down:  A factor of 12 \_\_\_ A multiple of 3 \_\_\_ A prime number \_\_\_ | / 3 |
| 5. | 42 = \_\_\_\_ √81 = \_\_\_\_ | / 2 |
| 6. | Work out:  2 × 3 + 4 = \_\_\_\_  10 – 2 × 5 = \_\_\_\_  16 ÷ (2 × 4) = \_\_\_\_\_ | / 3 |
| 7. | Round 4.561 to 1 decimal place.  \_\_\_\_\_\_ | / 1 |
| 8. | Find the highest common factor of 12 and 18.  \_\_\_\_\_\_ | / 3 |
| 9. | Use the information that 257 × 34 = 8738 to find the value of  2.57 × 34 = \_\_\_\_\_\_\_  873.8 ÷ 2.57 = \_\_\_\_\_\_\_ | / 2 |
| 10. | Circle the **two** fractions below that are equivalent to . | / 2 |
| 11. | Put these decimals in order from **smallest** to **largest**.  0.28 0.82 0.208 0.08 0.802  \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ | / 2 |
| 12. | Write the ratio 6 : 15 in its **simplest form**.  \_\_\_\_:\_\_\_\_ | / 1 |
| 13. | Write these fractions in order of size, starting with the **smallest**.    \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ | / 2 |
| 14. | Calculate:  of £40 £\_\_\_\_\_\_  16% of 70g \_\_\_\_\_\_g | / 4 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15. | Complete the table below:   |  |  |  | | --- | --- | --- | | **Fraction** | **Decimal** | **Percentage** | |  | 0.4 |  | |  |  | 50% | |  | 0.65 | 65% | | / 3 |
| 16. | Work out and write in their **simplest form**:  +  1 x 2 | / 5 |
| 17. | The normal cost of a pair of boots is £120. In a sale the cost of the boots is reduced by 45%.  Work out the **sale price** of the boots.  £\_\_\_\_\_\_\_\_ | / 3 |
| 18. | Write these numbers in order of size. Start with the **smallest** number.  26% 0.3  \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ | / 2 |
| 19. | Paul is making grey paint. He mixes black and white paint in the ratio 1: 3. He makes 60 litres of grey paint. How much **white paint** does he use?  \_\_\_\_ litres | / 3 |