1. What is the value of 25?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | 10 | **B** | 25 |  **C** | 32 | **D** | 7 |

1. Which of these is equivalent to 34 × 39?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | 313 | **B** | 324 |  **C** | 336 | **D** | 349 |

3. **How many** of the following are equivalent to 85 ÷ 83?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | $$\frac{8^{5}}{8^{3}}$$ | **B** | 64 | **C** | 815 | **D** | 82 |

4. Evaluate (32)3

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | 18 | **B** | 243 |  **C** | 729 | **D** | 27 |

5. 90 = …

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | 0 | **B** | 1 |  **C** | 9 | **D** | impossible |

6. Work out the value of 24 + 32

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A** | 48 | **B** | 46656 |  **C** | 14 | **D** | 25 |

7. a) True or false: 24 = 42 ?

b) True or false: 34 = 43 ?

8. Which is greater: ab or ba ?

1. Without using a calculator, find the value of:
2. 24
3. 33
4. 104
5. 53
6. Use the *xy* button on your calculator to evaluate:
7. 65
8. 37
9. 84
10. 210
11. **Simplify** each of these expressions
12. 65 × 69
13. 812 × 85
14. 104 × 107
15. 1235 × 1239
16. *d*11 × *d*26
17. *tp* × *tq*

4.Simplify each of these expressions

1. 713 ÷ 76
2. 811 ÷ 86
3. 175 ÷ 174
4. 1089 ÷ 106
5. *d*14 ÷ *d*11
6. *tp* ÷ *tq*

5. Simplify

1. (521)3
2. (420)10
3. (102)4
4. (1132)6
5. (*g*6)6
6. (*ha*)*a*

6. Write down the value of:

1. 80
2. 100
3. 720
4. 3.40
5. *p*0
6. (*ha*)0