MATHECINE ACADEMY

QUIZ #1
PRIMES, PRIME FACTORISATION, SQUARES, CUBES AND ROOTS

NAME: ……. **DATE: …….**
CLASS: ……. **SCORE: …… / 15**

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1. Write down the prime numbers between 30 and 60.

Answer: …… [3]

2. Is the number 1547 prime or composite?
Show your working/explanation.

Answer: …… [2]

3.
(a) Cross out the numbers which are **NOT** squares nor cubes. [3]

$2^2 \times 3^3 \times 5^5$ $5^3 \times 2^3$ $2^3 \times 5$ 1

$2^2 \times 5^2 \times 7^2$ 2^8 3^6 64

4.

(a) Using factor tree or the decomposition method, express (in index form) the number **63 504** as the product of its prime factors.

Answer: …… [3]

(b) Write down the square root in of 63 504, in index form.

Answer: …… [2]

(c) If 63 504 is multiplied by a number m, it becomes a **perfect cube number**.
Give a possible value of m.

Answer: …… [2]