

NAME		MARKS	30
CLASS			

TOPICAL TEST 1 (Topic 1.1 & 1.2)

Answer ALL questions. Show your working. [Calculator should NOT be used]

1. Consider the seven numbers: **35, 1, 15, 3, 12, 19, 24**. Write down

(a) all the prime numbers

Ans: _____ (1)

(b) the numbers that have a factor of 5

Ans: _____ (1)

(c) the multiples of 4

Ans: _____ (1)

(d) the composite numbers which are greater than 20

Ans: _____ (1)

2. (a) Find the highest common factor of 24, 48 and 84.

Ans: _____ (2)

(b) Find the prime factorization of 520.

Ans: _____ (2)

3. (a) Evaluate $5 \times [5 - (-7)]$

Ans: _____ (2)

(b) Calculate $2^0 + 4^2 - 3^2$

Ans: _____ (2)

4. (a) Express $2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 7$ in index notation.

Ans: _____ (1)

(b) Complete the next two terms of the number pattern below.

$-3, -1, 2, 6, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$

(2)

5. (a) Find the Least Common Multiple (L.C.M) of 28, 35 and 70

Ans: _____ (2)

(b) Express 420 as product of its prime factors.

Ans: _____ (2)

6. (a) List down the first three multiples of 27

Ans: _____ (1)

(b) Evaluate $54 + 3 \times 2 - (-2)$

Ans: _____ (2)

7. Two prime numbers have a sum of 19. What are the two numbers?

Ans: _____ and _____ (2)

8. Evaluate $[(100 \div 5 + 6) \times 4] - 20$

Ans: _____ (2)

9. Find the sum of **perfect squares** between 20 and 40.

Ans: _____ (2)

10. Write the symbol $<$, $>$ or $=$ in box provided.

(a) $-3 - 4$ 7

(b) 8 $4^2 \div 2$

(2)
