

2036 PENANG SANGAM PRIMARY SCHOOL
YEAR 5
MATHEMATICS
WORKSHEET – 4

STRAND	ALGEBRA
SUB STRAND	Number Patterns
CONTENT LEARNING OUTCOME:	Identify patterns in a series given numbers.

LESSON NOTES

Number Patterns is a pattern or sequence in a series

Examples:

(a.) $\{1, 4, 7, 10, 13, \dots\}$ starts at 1 and jumps 3 every time. (Plus 3 pattern)

(b.) $\{2, 4, 8, 16, 32, \dots\}$ doubles the number each time to get the next number (Multiply by 2 pattern)

(c.) $\{42, 39, 36, 33, 30, \dots\}$ minus 3 to get the next number (Subtract 3 pattern) Example C is a finite sequence as it will end when it reaches 0.

(d.) $\{1, 5, 3, 7, 5, 9, 7, \dots\}$ (This is a plus 4 and minus 2 pattern.)

ACTIVITIES

1. Identify the pattern and write the next four numbers.

- a) $\{3, 6, 5, 10, 9, \underline{\quad}, \underline{\quad}, \underline{\quad}, \dots\}$
- b) $\{3, 6, 12, 24, \underline{\quad}, \underline{\quad}, \underline{\quad}, \dots\}$
- c) $\{3, 4, 8, 9, 18, 19, \underline{\quad}, \underline{\quad}, \underline{\quad}, \dots\}$
- d) $\{10, 9, 90, 89, 890, \underline{\quad}, \underline{\quad}, \underline{\quad}, \dots\}$

2. Word problems

- a) Mrs. Prasad is 4 years younger than her husband. Her husband is 46 years old and Sam is 6 years younger than Mrs. Prasad. How old is Sam?

- b) John is tall. Paul is taller but Ken is the tallest. Who is the shortest?

Who is the tallest?

- c) Jone's house is big, Freddy's house is two times bigger than Jone's and Romu's house is two times bigger than Freddy's. Who has the smallest house?
