

Name : _____

Arithmetic Series

Sheet 1

- 1) Juan was gifted a piggy bank for his birthday. He saves up \$15 from his allowance in April, \$23 in May, \$31 in June and so on. How much will Juan's piggy bank contain at the end of 12 months?
- _____

- 2) A summer camp received 17 registrations on day one. The registrations increased day by day at an arithmetic progression. The enrollment process closed with 42 registrations on the last day. If the total number of registrations was 177, how many days did the camp run?
- _____

- 3) A farmer planted saplings in a triangular pattern. The base of the triangle contains 20 saplings. How many saplings were planted in all?
- _____

- 4) Ken joined a company with a starting salary of \$36455. He was given a 5% raise each year. What would be his total earnings after 10 years?
- _____

- 5) Luke stacks 7 rows of firewood on old pallets to make provision for winter. The bottom row contains 18 logs and the top row holds 6 logs. If the logs of wood are arranged in an arithmetic progression from bottom to the top, how many logs of wood can be found in the entire pile?
- _____

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Arithmetic Series

- 1) Juan was gifted a piggy bank for his birthday. He saves up \$15 from his allowance in April, \$23 in May, \$31 in June and so on. How much will Juan's piggy bank contain at the end of 12 months?

\$708

- 2) A summer camp received 17 registrations on day one. The registrations increased day by day at an arithmetic progression. The enrollment process closed with 42 registrations on the last day. If the total number of registrations was 177, how many days did the camp run?

- 3) A farmer planted 10 saplings in a row. The first sapling is 1 meter tall. Each subsequent sapling is 20% taller than the previous one. The base of the triangle contains 10 saplings. How many saplings were planted in all?

- 4) Ken joined a company with an annual salary of \$36455. He was given a 5% raise each year. What would be his total earnings after 10 years?

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\$155500

- 5) Luke stacks 7 rows of firewood on old pallets to make provision for winter. The bottom row contains 18 logs and the top row holds 6 logs. If the logs of wood are arranged in an arithmetic progression from bottom to the top, how many logs of wood can be found in the entire pile?

84 logs of wood in all
