

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. How many days did the camp run? The total number of registrations was 177 registrations, how many days did it run?
- _____

- 3) A farmer planted 100 saplings in a triangle. The base of the triangle contains 10 saplings. How many saplings did he plant 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?
- _____

- 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. How many days did the camp run if it received a total of 177 registrations, how many days did it run?

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\$155500

- 3) A farmer planted 100 saplings in a triangle. The base of the triangle contains 40 saplings. How many saplings did he plant in all?
- 4) Ken joined a company with a starting salary of \$36455. He was given a 5% raise each year. How much was Ken's 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?

84 logs of wood in all

Arithmetic Series

- 1) A six-story residential complex at Morrisville has 75 apartments on Level one. For every successive level, the number of apartments increases by 10. How many apartments in all are housed in the residential complex?

- 2) Edwin begins a new cardio workout with jump ropes. He jumps rope for $1\frac{1}{2}$ minutes on day one. He gradually increases the time to $3, 4\frac{1}{5}$ minutes and so on in the following days. How many minutes will he spend on his cardio workout over a 9 day period?

- 3) A team of carpenters built 5 chairs on day one. On day 2, they built 5 chairs more than the previous day. How many chairs will they have built by day 10?

- 4) Ken opened a new bank account in February. He deposited \$545 in February, and each month he deposited \$50 more than the previous month. How much money has he saved up by the end of the year?

- 5) A toy manufacturing unit has an inventory of 500 units of train sets on day 1. On successive days, the company increases the production by 50 units. How many days, will it take the company to have an inventory of 5400 train sets?

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Arithmetic Series

- 1) A six-story residential complex at Morrisville has 75 apartments on Level one. For every successive level, the number of apartments increases by 10. How many apartments in all are housed in the residential complex?

600 apartments

- 2) Edwin begins a new cardio workout with jump ropes. He jumps rope for $1\frac{1}{2}$ minutes on day one. He gradually increases the time to $3, 4\frac{1}{5}$ minutes and so on in the following days. How many minutes will he spend on his cardio workout over a 9 day period?

- 3) A team of carpenters built 5 chairs on day one. On day 2, they built 5 chairs more than the previous day. How many chairs will they have built by day 9?

- 4) Ken opened a new bank account in January. He deposited \$545 in February, which was 10% more than he deposited in January. How much money has he saved up by the end of February?

- 5) A toy manufacturing unit has an inventory of 500 units of train sets on day 1. On successive days, the company increases the production by 50 units. How many days, will it take the company to have an inventory of 5400 train sets?

8 days

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\$4955

- 1) Neilsen plans to remodel the hearth of his fireplace. He stacked up bricks in a total of 8 rows. The first row contained 15 bricks, the second row had 13 bricks, the third row had 11 bricks and so on. How many bricks in all does the stack hold?

- 2) Kris invested money in the shares of a company and received a dividend of \$2700 at the end of the first year. Every year, the dividends from the investment increased in an arithmetic series. Determine the total amount of dividends received at the end of the seventh year.

- 3) Mike arranges a total of 86 cans of soup in successive racks in a supermarket. He places 86 cans in successive racks. The number of cans in successive racks does Mike use to arrange the

- 4) There are 9 seats in the first row of a theater. The number of seats increases by 1 for each successive row. If there are 25 rows, find the total number of seats in the theater.

- 5) Daisy runs 3 miles around Central Park on Monday. She increases the distance she runs by 0.25 miles each day. Determine the total distance covered from Monday to Friday.

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Arithmetic Series

- 1) Neilsen plans to remodel the hearth of his fireplace. He stacked up bricks in a total of 8 rows. The first row contained 15 bricks, the second row had 13 bricks, the third row had 11 bricks and so on. How many bricks in all does the stack hold?

64 bricks

- 2) Kris invested money in the shares of a company and received a dividend of \$2700 at the end of the first year. Every year, the dividends from the investment increased in an arithmetic series. Determine the total amount of dividends received at the end of the seventh year.

- 3) Mike arranges a total of 86 cans in successive racks in a supermarket. He places 86 cans in successive racks. The number of cans in successive racks does Mike use to arrange the cans?

- 4) There are 9 seats in the first row of a stadium. The number of seats increases by 1 for each successive row. If there are 705 seats in all, find the number of rows.

- 5) Daisy runs 3 miles around Central Park on Monday. She increases the distance she runs by 0.25 miles each day. Determine the total distance covered from Monday to Friday.

17.5 miles

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705 seats

Arithmetic Series

- 1) Zoe made an 8 layer multi-strand lavender necklace for her friend Peggy. She used up 55 beads for the first layer, 50 beads in the second layer, 45 beads in the third layer and so on. How many beads in all did Zoe use up to string the necklace?

300 beads

- 2) Mark laid out asphalt shingles in seven overlapping rows to cover a portion of the roof. He placed a shingle right at the top. He increased the number by 2 for every successive row that he laid down. How many shingles did he use together to cover the section of the roof?

- 3) Rachel borrowed a book from the library. She read 58 pages on Monday, 79 pages on Tuesday, and so on. On which day of the week did she finish the book?

- 4) Larry organizes 50 DVDs in the first rack. Each successive rack accommodated 6 more DVDs than the previous rack. How many racks in all does the cabinet have?

- 5) A plant nursery had 15 rows of Zinnia saplings. The first row contained 19 saplings. Each successive row accommodated 6 more saplings than the previous row. How many Zinnia saplings can you find altogether at the nursery?

915 Zinnia saplings

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0 racks

Name : _____

Arithmetic Series

Sheet 5

- 1) Yvonne took 5 days to complete a holiday assignment. She wrote 7 pages on the first day, 11 pages on the second day, 15 pages on the third day and so on. How many pages did the assignment contain?

- 2) Karen baked 375 cupcakes and arranged them on a six-tier stand for a swim team banquet. She arranged 25 cupcakes on the top tier and gradually increased the number of cupcakes on each tier. How many cupcakes did she have in the bottommost tier?

- 3) Grade 10 students were arranged in 4 rows. The first row had 10 students, and each row had 4 fewer students than the row in front of it. How many students were in the last row? How many students were in the photo?

- 4) Sam joins as an intern and earns \$1250 in June. His salary increases by 5% each month. How much money will he have earned in 6 months? How much money will he be paid a wage of?

- 5) Jake stacked up 176 pipes. There are 31 pipes in the bottom row. Each preceding row contained 3 pipes lesser than the row above it. Determine the total number of rows in which the pipes were stacked.

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Arithmetic Series

- 1) Yvonne took 5 days to complete a holiday assignment. She wrote 7 pages on the first day, 11 pages on the second day, 15 pages on the third day and so on. How many pages did the assignment contain?

75 pages

- 2) Karen baked 375 cupcakes and arranged them on a six-tier stand for a swim team banquet. She arranged 25 cupcakes on the top tier and gradually increased the number of cupcakes on each tier. How many cupcakes did she have in the bottommost tier?

- 3) Grade 10 students were arranged in 4 rows. The first row had 10 students, and each row had 4 fewer students than the row in front of it. How many students were in the last row? They were ushered to the photo. How many students had 4 fewer students than the photo?

- 4) Sam joins as an intern and earns \$1250 in June. His wage increases by 5% each month. How much money will he have earned in 6 months? He is paid a wage of _____ each month. How much money will Sam have earned in 6 months?

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\$6250

- 5) Jake stacked up 176 pipes. There are 31 pipes in the bottom row. Each preceding row contained 3 pipes lesser than the row above it. Determine the total number of rows in which the pipes were stacked.

11 rows
