

**Multi-Step Equations - Integers**

Sheet 1

- 1) Aiden borrows a book from a public library. He read a few pages on day one. On day two, he reads twice the number of pages than he read on day one. On the third day, he reads six pages less than what he read on the first day. If he has read the entire book that contains 458 pages, how many pages did he read on day three?

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- 2) 'The Godfather' sold one million more than twice the number of tickets that were sold for 'The Santa Clause'. 'E.T.' sold 15 million more than twice the tickets sold for 'The Godfather'. If 270 million tickets were sold in all, how many tickets were sold out for 'The Godfather'?

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- 3) Linda is twice as old as Vera. Tanya is four less than four times the age of Linda. Their total age is two more than nine times the age of Vera. How old is Tanya?

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- 4) The lifespan of a guinea pig is 6 years less than that of a giraffe. The lifespan of a tiger is 4 times that of the guinea pig. If the total lifespan of the animals is 30 years, calculate the longevity for the giraffe.

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- 5) A website received 9,347 visits during the first month of its launch. The third month witnessed three times the number of visits than the second month. If the website received 13,455 visits over the three month period, how many visits did it witness during the second month?

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**Answer key****Multi-Step Equations - Integers**

Sheet 1

- 1) Aiden borrows a book from a public library. He read a few pages on day one. On day two, he reads twice the number of pages than he read on day one. On the third day, he reads six pages less than what he read on the first day. If he has read the entire book that contains 458 pages, how many pages did he read on day three?

**110 pages**

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- 2) 'The Godfather' sold one million more than twice the number of tickets that were sold for 'The Santa Clause'. 'E.T.' sold 15 million more than twice the tickets sold for 'The Godfather'. If 270 million tickets were sold in all, how many tickets were sold out for 'The Godfather'?

**73 tickets**

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- 3) Linda is twice as old as Vera. Tanya is four less than four times the age of Linda. Their total age is two more than nine times the age of Vera. How old is Tanya?

**20 years**

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- 4) The lifespan of a guinea pig is 6 years less than that of a giraffe. The lifespan of a tiger is 4 times that of the guinea pig. If the total lifespan of the animals is 30 years, calculate the longevity for the giraffe.

**10 years**

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- 5) A website received 9,347 visits during the first month of its launch. The third month witnessed three times the number of visits than the second month. If the website received 13,455 visits over the three month period, how many visits did it witness during the second month?

**1,027 visits**

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## Multi-Step Equations - Integers

Sheet 2

- 1) In the 2006 Winter Olympics, Sweden won 3 medals more than China. Germany secured one more than twice the number of medals bagged by Sweden. If 54 medals were won in all, how many medals did Germany secure?

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- 2) A ship departs from Port Miami with 5,678 tons of cargo. The ship docks at the Bahamas and unloads  $\frac{1}{4}$  times the quantity of cargo that was unloaded in Miami. How many tons of cargo did the ship unload in the Bahamas?

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- 3) In 2013, a State Library had 1,278 books in its collection. During the year 2014, the library added 3,456 more books to their collection. If the collection now is five times the size of the collection in 2013, how many books did the library hold in 2014?

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- 4) Harriet gifts each of her 12 friends with 5 pens. If she has 50 pens left, how many pens did she have initially? If she has 50 pens left, how many pens did she have initially? and 6 retractable pens, calculate the total number of pens she has.

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- 5) Darren has \$579 in his checking account. He swipes the card to buy three equally priced sweaters. He pays five times the amount that he paid for the sweaters to pay his credit card bill. If he has \$165 in his account now, how much did his credit card dues amount to?

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**Answer key****Multi-Step Equations - Integers**

Sheet 2

- 1) In the 2006 Winter Olympics, Sweden won 3 medals more than China. Germany secured one more than twice the number of medals bagged by Sweden. If 54 medals were won in all, how many medals did Germany secure?

**29 medals**

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- 2) A ship departs from Port Miami with 5,678 tons of cargo. The ship docks at the Bahamas and unloads  $\frac{1}{4}$  times the quantity of cargo that was unloaded in Miami. How many tons of cargo did the ship unload in the Bahamas?

**1,419.5**

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- 3) In 2013, a State Library had 17,300 books in its collection. During the year, the library added 2,500 books to their collection. If the collection now is five times the size of the library hold in 2013, how many books did the library have in 2013?

**17,300**

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- 4) Harriet gifts each pen \$2. If she has 5 pens and 6 retractable pens, calculate the total cost of the pens.

**\$2**

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- 5) Darren has \$579 in his checking account. He swipes the card to buy three equally priced sweaters. He pays five times the amount that he paid for the sweaters to pay his credit card bill. If he has \$165 in his account now, how much did his credit card dues amount to?

**\$345**

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## Multi-Step Equations - Integers

Sheet 3

- 1) A gardener plants three different saplings at East Green, Central Park . The number of magnolia saplings he planted was 3 less than crab apple saplings. The Kwanzan cherry saplings planted amounted to twice the number of magnolias. If 35 saplings were planted in all, how many Kwanzan cherry saplings he planted?

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- 2) Mrs. Wilson's class was asked to paint clay figurines. There were 24 pots of paint in all, of which 6 pots were green paint. Besides, there were 2 more pots of blue paint. How many pots contained red paint?

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- 3) Gina's mom filled a pinata with 100 pieces of candy. There were 3 types of candies. If there were 40 pieces of chocolate and 20 pieces of peanut butter, how many pieces of other candies were in the pinata?

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- 4) Emma, Noah and Mia go to a local preschool every day. Emma goes for twice as many hours as Noah. Mia goes for 1 hour less than Noah. How many hours did they go to school in a week. How many hours did Mia go to school in a week?

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- 5) The sum of three consecutive numbers is 141. Find the least and the greatest numbers in the series.

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**Answer key****Multi-Step Equations - Integers**

Sheet 3

- 1) A gardener plants three different saplings at East Green, Central Park . The number of magnolia saplings he planted was 3 less than crab apple saplings. The Kwanzan cherry saplings planted amounted to twice the number of magnolias. If 35 saplings were planted in all, how many Kwanzan cherry saplings he planted?

**16 Kwanzan cherry saplings**

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- 2) Mrs. Wilson's class was asked to paint clay figurines. There were 24 pots of paint in all, of which 6 pots were green paint. Besides, there were 2 more pots of blue paint. How many pots contained red paint?

**8 pots of red paint**

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- 3) Gina's mom filled a pinata with 100 pieces of candy. There were 5 types of candies. If the pinata was broken and all the candy was eaten, how many pieces of each type of candy were there?

**5 milk chocolates**

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- 4) Emma, Noah and Mia go to a local preschool every day. Emma goes for twice as many hours as Noah. Mia goes for 3 hours in a week. How many hours did Emma go to preschool in a week?

**38 hours**

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- 5) The sum of three consecutive numbers is 141. Find the least and the greatest numbers in the series.

**46 and 48**

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