

**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 read the entire book that contains 458 pages in three days, how many pages did he read on day three?

---

- 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'?

---

- 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?

---

- 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.

---

- 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?

---

**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 read the entire book that contains 458 pages in three days, how many pages did he read on day three?

---

$$x + 2x + x - 6 = 458 ; 110 \text{ pages}$$

- 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'?

---

$$x + 2x + 1 + 15 + 2(2x + 1) = 270 ; 73 \text{ million tickets}$$

- 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?

---

$$x + 2x + 4(2x) - 4 = 9x + 2 ; 20 \text{ years}$$

- 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.

---

$$x + x - 6 + 4(x - 6) = 30 ; 10 \text{ years}$$

- 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?

---

$$9347 + x + 3x = 13455 ; 1,027 \text{ visits}$$