

**Linear equations word problems**

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- 1) In a nature reserve there are hydrangeas, lilies and daisies. For each daisy there are three lilies and there is one hydrangea for each 5 daisies. Calculate how many hydrangeas, lilies and daisies we have in the nature reserve if the total is 4305 flowers.
- 2) From a cake we eat a half and 19 grams left. Find out initial *weight* of the cake.
- 3) In 18 more years the age of a man will be eleven-fifths of his current age. Calculate how old is this person now.
- 4) On a train there are 1430 persons among gardeners, firemen and mechanics. We have 4 firemen for each mechanic and also we have two mechanics for each gardener. Find out how many gardeners, firemen and mechanics we have on the train.
- 5) The sum of two consecutive integers is 197. Calculate the numbers.
- 6) On a plateau we have gladioli, daisies and tulips. If the four-sevenths are gladioli, the two-fifths are daisies and 8 are tulips, find out how many daisies and gladioli we have on the plateau.
- 7) In 36 more years the age of a woman will be three times her present age decreased by 34 years. Calculate how old is this person currently.
- 8) On a trip we have gardeners, firemen and mechanics. If a third are mechanics, the three-fifths are gardeners and 4 are firemen, find out how many gardeners and mechanics are on the trip.
- 9) The sum of two consecutive odd integers is 44. Calculate the integers.
- 10) In a forest we have bats, hares and tigers. We have three hares for each tiger and also there is one bat for each 5 tigers. Find out how many bats, hares and tigers are in the forest if the total is 3780 animals.
- 11) The sum of three consecutive integers is 51. Calculate the integers.

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**Answers:**

- 1) 205 hydrangeas, 1025 daisies, 3075 lilies.
- 2) 38 grams.
- 3) 15.
- 4) 130 gardeners, 260 mechanics, 1040 firemen.
- 5) 98, 99
- 6) 112 daisies, 160 gladioli.
- 7) 35.
- 8) 36 gardeners, 20 mechanics.
- 9) 21, 23
- 10) 180 bats, 900 tigers, 2700 hares.
- 11) 16, 17, 18