

Mathematics

Forming quadratic equations I

Mr Coward



Try this

I think of a positive integer.
I add 7, then multiply by 5.
I then subtract 1, my answer is 54.
What was my number?

I think of a positive integer.
I square my number.
I then subtract 1, my answer is 48.
What was my number?



Independent task

1) Write an equation to represent each question.

a) I think of a positive integer. I multiply by 6, then add 11.
My answer is 27.

b) I think of a positive integer. I square it, then times it by two.
My answer is 27.

c) I think of a positive integer. I multiply it by 2, then I square it.
My answer is 27.

d) I think of a positive integer. I multiply it by 7, then I add 3. I
then divide it by 2. My answer is 27.



Independent task

1) Write an equation to represent each question.

e) I think of a positive integer. I square it, then I add 3. I then divide it by 2. My answer is 27.

f) I think of a positive integer. I multiply it by 3 more than itself, I then add 15. My answer is 27.

2) Which of your equations are not quadratics?



Explore

Make up three quadratic equation 'I think of a number' problems.

Make one easy, one medium and one hard.

