

Quiz: Polynomial Word Problems

1 The sides of a triangle are represented by the expressions  $3x^2 + 9$ ,  $3x^2 - 4x$ , and  $5x + 7$ . Write the simplest expression.

2 Shown gives Liza a 54 meter head start. After  $t$  seconds, Liza is a distance  $6t + 54$  from the starting line and Shown is a distance of  $7t$  from the starting line. How far ahead of Shown is Liza after  $t$  seconds?

3 A circular courtyard has an area of  $8 - 4x^2$ . There are two rectangular flowerbeds  $4x^2$ ,  $8x^2$  in the courtyard. Find the expression for the green lawn area.

4 Your school is ordering computer equipment. If  $c$  represent the cost of one personal computer and  $p$  is the cost of one printer. Write an expression for the total cost of 16 computers and 17 printers.

5 The sides of a triangle are represented by the expressions  $5x^2 + 6$ ,  $4x^2 - 9x$ , and  $7x + 6$ . Write the simplest expression.

6 Anderson gives Fanny a 59 meter head start. After  $t$  seconds, Fanny is a distance  $6t + 60$  from the starting line and Anderson is a distance of  $7t$  from the starting line. How far ahead of Anderson is Fanny after  $t$  seconds?

7 A circular courtyard has an area of  $6 - 4x^2$ . There are two rectangular flower beds  $4x^2$ ,  $9x^2$  in the courtyard. Find the expression for the green lawn area.

8 Your school is ordering computer equipment. If  $c$  represent the cost of one personal computer and  $p$  is the cost of one printer. Write an expression for the total cost of 18 computers and 19 printers.

9 The sides of a triangle are represented by the expressions  $4x^2 + 8$ ,  $2x^2 - 6x$ , and  $x + 2$ . Write the simplest expression.

10 Fanny gives Ronny a 69 meter head start. After  $t$  seconds, Ronny is a distance  $6t + 69$  from the starting line and Fanny is a distance of  $7t$  from the starting line. How far ahead of Fanny is Ronny after  $t$  seconds?

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%