

TEST 1 Operations with Polynomials
Answer Section

1 A

2 C

$$(2x+3)(4x^2-5x+6) = 8x^3 - 10x^2 + 12x + 12x^2 - 15x + 18 = 8x^3 + 2x^2 - 3x + 18$$

3 D

4 A

5 A

6 A

7 A

8 A

9 A

10 A

11 B

12 B

13 A

14 D

15 C

16 D

17 D

18 a. $6x^2 - 10x - 1$ inches longer; Find the difference of the longest side and the second longest side:

$$8x^2 - 5x - 4 - (2x^2 + 5x - 3) = 6x^2 - 10x - 1.$$

b. $10x^2 + 1$ inchesc. The student should decrease the length of the shortest side to 7 inches. Sample answer: The original perimeter is $10x^2 + 1$. In order to have a perimeter of $10x^2$, you need to subtract 1 from the side length.