

9 May 2017

Do Now: Regents Area Problems

1. If the length of a rectangle is $5\sqrt{2}$ and the width is $2\sqrt{3}$, what is the area of the rectangle?
(1) $10\sqrt{6}$ (2) $7\sqrt{6}$ (3) $7\sqrt{5}$ (4) $10\sqrt{5}$

2. If the length of a rectangle is represented by $20a$ and the width is represented by $0.4a$, the area of the rectangle is represented by
(1) $50a$ (2) $80a^2$ (3) $20.4a^2$ (4) $8a^2$

3. The length of a rectangle is represented by $x - 5$ and the width by $x + 2$. What expression would represent the area of the rectangle?
(1) $x^2 + 3x - 10$ (2) $2x - 3$
(3) $x^2 - 3x - 10$ (4) $4x - 6$

4. The area of a rectangle is represented by $32x^3$. If the length of this rectangle is $4x$, then the width is
(1) $16x^2$ (2) $16x^3$ (3) $8x^2$ (4) $8x^3$

5. In a rectangle, the length is twice the width, and the perimeter is 48. Find the area of the rectangle.