Dors
$$3\sqrt{2} \times 5\sqrt{7} = 15\sqrt{14}$$
?

$$\sqrt{120} = \sqrt{4 \times 30}$$

= 2 \square

8,27,64

$$f)(-3\sqrt{2x})(7\sqrt{3x})$$

9)
$$\sqrt{21x} \cdot 4x^2\sqrt{\frac{x}{7}}$$
 $4x^2\sqrt{\frac{x^2}{1}}\cdot\frac{x}{7}$

We can multiply the examples above b/c the indexes are the same For this reason, 43/5 × 3/2 cannot be simplified.

a)
$$3\sqrt{5}(4\sqrt{2}x - 2\sqrt{5}) = 12\sqrt{10}x - 6(5)$$

$$(2\sqrt{10}x - 30)$$

$$2-5\sqrt{x}$$

c)
$$(310^{2} + 432)(832 - 5316)^{2}$$

 $8320^{2} - 53164 + 3234 - 203\sqrt{2}6$
 $-563166 + 32314 - 123126$

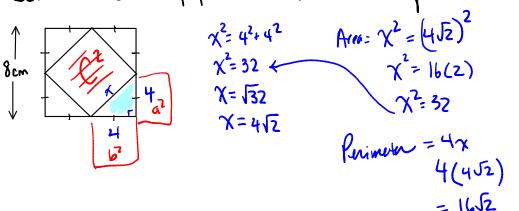
c)
$$(\sqrt{x}-3)^2 = (\sqrt{x}-3)(\sqrt{x}-3) = x-3\sqrt{x}-3\sqrt{x}+9$$

 $x-6\sqrt{x}+9$

d)
$$(2\sqrt{x} - \sqrt{y})(2\sqrt{x} + \sqrt{y}) = 4x + 2\sqrt{xy} - 2\sqrt{xy} - y$$
 $0\sqrt{xy} = 0$

* In general, conjugates are binomials with the same terms that have opposite signs.

c) Determine the area & perimeter of the inner square.



Assignment: Worksheet