Mobius Math Academy

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С

 $5z^4\sqrt{11} + z^2\sqrt{22z}$

 $5z^3\sqrt{11}+z^2\sqrt{22z}$

Name:

 $(5z\sqrt{z}+z^2\sqrt{2})\cdot\sqrt{11z}$

b $5z^2\sqrt{3} + z^2\sqrt{22z}$

d $5z^2\sqrt{11} + z^2\sqrt{22z}$

1 Multiply the radical expressions and simplify the answer

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Math worksheet on 'Radicals - Multiplying Monomials with Binomials (Values and Variables) (Level 1)'. Part of a broader unit on 'Radicals -Multiplication Intro'

Learn online: app.mobius.academy/math/units/radicals_multiplication_intro/		
	e $5z^2\sqrt{11} + 5z^2\sqrt{22z}$	
2 Multiply the radical expressions and simplify the answer	3 Multiply the radical expressions and simplify the answer	
$\sqrt{5} \cdot (5d + d\sqrt{11})$	$(3m+\sqrt{11})\cdot\sqrt{7m}$	
a $5d\sqrt{5} + d\sqrt{55}$ b $5d^{-1}\sqrt{5} + d\sqrt{55}$	a $3m\sqrt{7m} + \sqrt{77m}$ b $3m\sqrt{7m} + 4\sqrt{77m}$	
$\textbf{C} \qquad 5d\sqrt{5} + d^{-1}\sqrt{55}$	c $3m\sqrt{7m^{-1}} + \sqrt{77m}$ d $3m\sqrt{7} + \sqrt{77m}$	
	e $3m\sqrt{7m} + \sqrt{77}$	
4 Multiply the radical expressions and simplify the answer	5 Multiply the radical expressions and simplify the answer	
$\left(\sqrt{2+5}\sqrt{m} ight)\cdot m\sqrt{2}$ a $_{2m+5m\sqrt{2m}}$ b $_{2m^3+5m\sqrt{2m}}$	$(4\sqrt{d}+\sqrt{3})\cdot d\sqrt{13d}$ a $_{4d^2\sqrt{13}+d\sqrt{39d}}$ b $_{4d\sqrt{13d}+d\sqrt{39d}}$	
c $2m + 5m\sqrt{2m^{-1}}$ d $6m + 5m\sqrt{2m}$	c $4d^2\sqrt{13} + d\sqrt{39d^{-1}}$ d $4d^2\sqrt{13} + d\sqrt{d}$	
e $2m + 5m^{-1}\sqrt{2m}$	e $4d^2\sqrt{13} + 2d\sqrt{39d}$	
6 Multiply the radical expressions and simplify the answer	7 Multiply the radical expressions and simplify the answer	
$\sqrt{3m} \cdot (m\sqrt{3m} - 2m\sqrt{m})$	$\sqrt{7c} \cdot (5 + \sqrt{5})$	
a $3m^2 - 2m^2\sqrt{3}$ b $3m^4 - 2m^2\sqrt{3}$	a $5\sqrt{7c} + c\sqrt{35c}$ b $5\sqrt{7c} + \sqrt{2c}$	
C $3m^2\sqrt{m} - 2m^2\sqrt{3}$ d $3m^2 - 2m^3\sqrt{3}$	C $5\sqrt{7c} + \sqrt{35c}$ d $5\sqrt{7c} + 4\sqrt{35c}$	
	e $5\sqrt{7c} + \sqrt{35}$	