Radicals - Multiplying Monomials (Values and Variables)

Name

1 Multiply the radical expressions and simplify the answer

$$\sqrt{27r} \cdot \sqrt{75r^2}$$

A	B	C	D
$45r\sqrt{r}$	$45r^2$	$45r^2\sqrt{r}$	$45r$

2 Multiply the radical expressions and simplify the answer

$$\sqrt{32r} \cdot \sqrt{8r}$$

A	B	C	D	E
$16r$	$48r$	r	$16r^2$	16

3 Multiply the radical expressions and simplify the answer

$$\sqrt{44t^2} \cdot \sqrt{99t^4}$$

A	B	C	D
t^3	$198t^3$	$66t^3$	$66t^2\sqrt{t}$

4 Multiply the radical expressions and simplify the answer

$$\sqrt{75y^2} \cdot \sqrt{27y^2}$$

A	B	C
$45y^3$	$45y^2$	$45y\sqrt{y}$

5 Multiply the radical expressions and simplify the answer

$$\sqrt{50r^4} \cdot \sqrt{18r^3}$$

A		B	
$30r^3$		$120r^3\sqrt{r}$	
C			
$30r^3\sqrt{r}$			

6 Multiply the radical expressions and simplify the answer

$$\sqrt{48x^3} \cdot \sqrt{27x^3}$$

A	B	C	D
$36x^3\sqrt{x}$	$36x^4$	$36x^2\sqrt{x}$	$36x^3$

7 Multiply the radical expressions and simplify the answer

$$\sqrt{32q^3} \cdot \sqrt{50q^2}$$

A		B	
$120q^2\sqrt{q}$		$40q^2\sqrt{q}$	
C		D	
$80q^2\sqrt{q}$		$40q^3\sqrt{q}$	

8 Multiply the radical expressions and simplify the answer

$$\sqrt{50t^3} \cdot \sqrt{32t^4}$$

A	B	C	D
$40t^3\sqrt{t}$	$40t^4\sqrt{t}$	$40t^3$	$40t^4$