



## Radicals - Multiplying Monomials (Values and Variables) over Integer



**1** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{12t^4} \cdot \sqrt{27t}}{3}$$

A	B	C	D	E
$18t^3$	$t^2\sqrt{t}$	$6t^2\sqrt{t}$	$18t^2$	$18t^2\sqrt{t}$

**2** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{80q^2} \cdot \sqrt{20}}{5}$$

A	B	C	D	E
40	$40q^2$	$q$	$40q$	$8q$

**3** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{32t^4} \cdot \sqrt{18t^2}}{3}$$

A	B	C	D	E
$24t^3\sqrt{t}$	$24t^2\sqrt{t}$	$8t^3$	$24t^2$	$24t^3$

**4** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{18q} \cdot \sqrt{32}}{3}$$

A	B	C
24	$72\sqrt{q}$	$8\sqrt{q}$
D	E	
$24q$	2	

**5** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{8y^3} \cdot \sqrt{32}}{2}$$

A	B	C
$4\sqrt{y}$	$4y\sqrt{y}$	$16y^2\sqrt{y}$
D		
$8y\sqrt{y}$		

**6** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{75m^4} \cdot \sqrt{27m^2}}{5}$$

A	$180m^3$	B	$45m^4$
C	$9m^3$	D	$45m^2\sqrt{m}$

**7** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{20} \cdot \sqrt{80}}{2}$$

A	B	C
10	120	20
D		
40		

**8** Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{75x^2} \cdot \sqrt{12x^2}}{3}$$

A	B	C	D	E
$10x^2$	$30x^2\sqrt{x}$	$3x^2\sqrt{x}$	$150x^2$	$30x^2$