Name

Radicals - Multiplying Monomials (Values and Variables) over Fraction

1 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{32q^2} \cdot \sqrt{50q^3}}{\frac{5}{3}}$$

A	B	C	D	E
$40q^3\sqrt{q}$	$14q^3$	$40q^3$	$14q^2$	$24q^2\sqrt{q}$

2 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{28n^2} \cdot \sqrt{63}}{\frac{7}{5}}$$

A	B	C
$42n$	$42n^2$	$30n$

D
21

3 Multiply the radical expressions and simplify the answer

$$\sqrt{27z} \cdot \sqrt{48z^4}$$

A	B
$z^2\sqrt{z}$	$36z^3$
C	D
$180z^2\sqrt{z}$	$36z^3\sqrt{z}$
E	
$36z^2\sqrt{z}$	

4 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{50} \cdot \sqrt{18p^2}}{\frac{3}{2}}$$

A	B	C
$30\sqrt{p}$	$30p^2$	$30p\sqrt{p}$

D	E
$13p$	$20p$

5 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{8y^3} \cdot \sqrt{50}}{\frac{5}{2}}$$

A	B	C
$3y\sqrt{y}$	$20y\sqrt{y}$	$20y^2$

D	E
$y\sqrt{y}$	$8y\sqrt{y}$

6 Multiply the radical expressions and simplify the answer

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

A	B	C	D
$16\sqrt{r}$	$16r$	$16r^2$	$48r$

7 Multiply the radical expressions and simplify the answer

$$\sqrt{80} \cdot \sqrt{45w^4}$$

A	B
$60w^2$	$60w$
C	D
$60w^2\sqrt{w}$	$60w\sqrt{w}$

8 Multiply the radical expressions and simplify the answer

$$\frac{\sqrt{45z} \cdot \sqrt{80z^2}}{\frac{2}{3}}$$

A	B	C
$180z\sqrt{z}$	$60\sqrt{z}$	$120z\sqrt{z}$

D	E
$60z\sqrt{z}$	$90z\sqrt{z}$