Math worksheet on *'Radicals - Multiplying Monomials (Values and Variables) (Level 2)'*. Part of a broader unit on *'Radicals - Multiplication Intro'*

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1 Multiply the radical expressions and simplify the answer

$$\sqrt{75} \cdot \sqrt{12}$$

a	b	c	d
1	90	150	30

2 Multiply the radical expressions and simplify the answer

$$\sqrt{27p} \cdot \sqrt{75p}$$

a	b	c	d	e	f
$45\sqrt{p}$	$45p$	$45p^2$	45	p	$45p\sqrt{p}$

3 Multiply the radical expressions and simplify the answer

$$\sqrt{20m^2} \cdot \sqrt{125m^4}$$

a	b
$50m^2\sqrt{m}$	$50m^3\sqrt{m}$
c	**d**
$50m^3$	$50m^4$
e	**f**
$250m^3$	$50m^2$

4 Multiply the radical expressions and simplify the answer

$$\sqrt{20b^4} \cdot \sqrt{125b^2}$$

a	b	c	d	e	f
$50b^3$	$50b^3\sqrt{b}$	$200b^3$	$50b^2\sqrt{b}$	b^3	$50b^4$

5 Multiply the radical expressions and simplify the answer

$$\sqrt{27} \cdot \sqrt{75z}$$

a	b	c	d	e	f
$225\sqrt{z}$	$\sqrt{z}$	$45z\sqrt{z}$	$45z$	45	$45\sqrt{z}$

6 Multiply the radical expressions and simplify the answer

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

a	b	c	d	e	f
$66p^4$	$66p^3$	$132p^3$	$66p^2$	$66p^3\sqrt{p}$	p^3

7 Multiply the radical expressions and simplify the answer

$$\sqrt{32y^2} \cdot \sqrt{8y^4}$$

a	b	c	d	e	f
y^3	$16y^2\sqrt{y}$	$16y^3$	$16y^3\sqrt{y}$	$32y^3$	$16y^2$