Name:_____

1 Simplify the radical

$$\sqrt{3^2 \cdot p^2 \cdot p^2 \cdot x^2 \cdot}$$

a	b	c	d	e	f
$3px\sqrt{4}$	$3p^2x$	$6px$	$4p^3x$	$5px^3\sqrt{3}$	$6p^3x$

2 Simplify the radical

$$\sqrt{5^2 \cdot b^2 \cdot r^2 \cdot r^2 \cdot}$$

a	b	c	d	e	f
$5b^2r\sqrt{2}$	$3b^3r$	$6br^3$	$5br^2$	$5br^3$	$8br$

3 Simplify the radical

$$\sqrt{2^2 \cdot z^2 \cdot p^2 \cdot p^2 \cdot}$$

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

4 Simplify the radical

$$\sqrt{3^2 \cdot p^2 \cdot x^2 \cdot}$$

a	b	c	d	e	f
p^2x	$2px^2\sqrt{4}$	$6p^2x^2$	$3px$	$4p^3x\sqrt{3}$	$px\sqrt{3}$

5 Simplify the radical

$$\sqrt{2^2 \cdot 2^2 \cdot y^2 \cdot y^2 \cdot c^2 \cdot c^2 \cdot}$$

a	b	c	d	e	f
$5y^2c^4$	$4y^2c$	$4y^2c^2$	$2yc$	$4yc^4$	$3yc^3\sqrt{4}$

6 Simplify the radical

$$\sqrt{5^2 \cdot y^2 \cdot y^2 \cdot d^2 \cdot d^2 \cdot}$$

a	b	c	d	e	f
$2yd^2$	$8yd^4$	$5y^4d^3$	$2yd^4$	$5y^2d^2$	$8y^2d^3$

7 Simplify the radical

$$\sqrt{2^2 \cdot m^2 \cdot m^2 \cdot z^2 \cdot z^2 \cdot}$$

a	b	c	d	e	f
$2m^2z^2$	mz^4	m^3z^4	mz^2	$mz^2\sqrt{3}$	$m^2z^3\sqrt{2}$