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1. Evaluate

a) 3^2 b) 3^3 c) 3^4 d) 3^5 e) 3^6

f) 2^{2^2} g) 2^{2^3} h) 2^{2^4} i) 2^{2^5} j) 2^{2^6}

2. Simplify the expressions

a) $4^2 \cdot 4^3$ b) $2^3 \cdot 2^4$ c) $5^2 \cdot 5^3$

d) $(3^2)^3$ e) $(2^3)^4$ f) $(4^2)^3$

g) $3^2 \cdot 3^3$ h) $(2^3)^4$ i) $(3^2)^3$

Rational Exponents and Radical Equations

SOLUTIONS

I. Evaluate

a) $9^{\frac{1}{2}}$ b) $9^{-\frac{1}{2}}$ c) 1^0 d) $27^{\frac{2}{3}}$ e) $81^{-\frac{1}{4}}$

3 $\frac{1}{3}$ 1 $(27^{\frac{1}{3}})^2$ $81^{\frac{1}{4}} = 3$
 because $3 \cdot 3 \cdot 3 \cdot 3 = 81$
 so, $81^{-\frac{1}{4}} = \frac{1}{3}$

f) $25^{1.5}$ g) $16^{-2.5}$ h) $4^{3.5}$ i) $64^{-.5}$ j) $9^{-2.5}$

$25^{\frac{3}{2}} = \sqrt{25^3}$ $16^{-2.5} = \frac{1}{16^{2.5}}$ $4^{3.5} = 2^7 = 128$ $\frac{1}{\sqrt{64}} = \frac{1}{8}$ $\frac{1}{9^{2.5}} = \frac{1}{9^{\frac{5}{2}}} = \frac{1}{3^5}$
 $= 125$ $\frac{1}{2 \times 2 \times 2 \times 2 \times 2} = \frac{1}{16}$ $= \frac{1}{243}$

II. Simplify the expressions

a) $\sqrt{8} \cdot \sqrt{40}$ b) $6^{\frac{1}{2}} \cdot 12^{\frac{1}{2}}$ c) $\sqrt[3]{16} + \sqrt[3]{8}$

$\sqrt{48}$ $\sqrt{6} \cdot \sqrt{12}$ $2 + 2 = 4$

$\sqrt{16 \cdot 3} = 4\sqrt{3}$ $\sqrt{72} = 6\sqrt{2}$

d) $(5\sqrt{3})^2$ e) $(81)^{\frac{1}{4}} \cdot (81)^{\frac{1}{2}}$ f) $\sqrt[3]{\sqrt{64}}$

$5\sqrt{3} \cdot 5\sqrt{3} = 25 \cdot 3 = 75$ $3 \cdot 9 = 27$ $\sqrt[3]{8} = 2$

$81^{\frac{1}{4} + \frac{1}{2}} = 81^{\frac{3}{4}} = 27$

g) $(9m^4)^{\frac{1}{2}}$ h) $(\frac{1}{4})^{-\frac{1}{2}}$ i) $(\frac{9}{16})^{\frac{3}{2}}$

$9^{\frac{1}{2}} \cdot m^{\frac{4}{2}} = 3m^2$ $\frac{1}{(\frac{1}{4})^{\frac{1}{2}}} = \frac{1}{\frac{1}{2}} = 2$ $(\frac{9}{16})^{\frac{1}{2}} = \frac{3}{4}$
 and $(\frac{3}{4})^3 = \frac{27}{64}$

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Radicals and Rational Exponents

1 Write each expression in radical form.

- a) $2^{\frac{1}{5}}$ b) $27^{\frac{2}{3}}$ c) $1000^{\frac{4}{5}}$
- d) $6^{\frac{2}{3}}$ e) $8^{\frac{1}{3}}$ f) $3x^{\frac{2}{3}}$

2 Write each expression with a rational exponent.

- a) $\sqrt[3]{2}$ b) $\sqrt{2}$ c) $\sqrt[3]{10}$
- d) $(\sqrt{2})^5$ e) $(\sqrt{5})^5$ f) $(\sqrt{2})^5$

3 Write each expression in exponential form.

- a) $(\sqrt[3]{3b})^4$ b) $\sqrt{6p}$ c) $\frac{1}{(\sqrt{3x})^5}$
- d) $100000^{\frac{1}{5}}$ e) $(9x^4)^{\frac{1}{2}}$ f) $(36n^{12})^{\frac{1}{6}}$

4 Simplify.

1. $\frac{2x^2}{x}$ 2. $\frac{5y^3}{12y}$
3. $\frac{3x^2}{20x}$ 4. $\frac{2x-10}{x-2}$
5. $\frac{4x-24}{2x-12}$ 6. $\frac{4x-14}{3x-10}$
7. $\frac{x^2+6x+9}{x^2-9}$ 8. $\frac{2x^2-8}{4x-4}$
9. $\frac{2x^2+7x-4}{x^2-3x-4}$ 10. $\frac{x^2+8x+7}{x^2-4x+3}$
11. $\frac{x^2-3x-4}{x^2-7x-8}$ 12. $\frac{11x^2-22x}{6x-12}$

Name :	Date :
Teacher :	Class :
Simplifying Rational Expressions	
Simplify the following rational expressions into a rational expression in lowest terms.	
1) $\frac{a^2 - 16}{a^2 - 4}$	6) $\frac{a^2 - 4b^2}{a^2 + 4b^2}$
2) $\frac{a^2 - 9}{a^2 + 9}$	7) $\frac{a^2 - 9b^2}{a^2 + 9b^2}$
3) $\frac{a^2 - 4}{a^2 + 4}$	8) $\frac{a^2 - 4b^2}{a^2 + 4b^2}$
4) $\frac{a^2 - 9}{a^2 + 9}$	9) $\frac{a^2 - 4b^2}{a^2 + 4b^2}$
5) $\frac{a^2 - 16}{a^2 - 4}$	10) $\frac{a^2 - 4b^2}{a^2 + 4b^2}$

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