Warm up:

put at top of today's assignment

Simplify. (No decimals.)

a. $\sqrt{2} \cdot \sqrt{10}$

b. $\dfrac{\sqrt{21}}{\sqrt{3}}$

c. $\sqrt{5}+\sqrt{6}$

d. $\sqrt{21}-\sqrt{3}$

Simplify. (No decimals.)

warm-up

E. $5\sqrt{3}+6\sqrt{3}$

F. $\sqrt{x^2+y^2}$

G. $\sqrt{45}-\sqrt{20}$

H. $\sqrt[3]{2}*\sqrt[3]{32}$

rationalize the denominator:

I. $\frac{20}{\sqrt{5}}$

J. $\frac{3}{2\sqrt{6}}$

Simplify: K. $\sqrt[3]{12} * \sqrt[3]{2}$

See next 3 slides to check your work!

Warm up:

put at top of today's assignment

Simplify. (No decimals.)

a. $\sqrt{2} \cdot \sqrt{10}$

$= \sqrt{2 \cdot 10} = \sqrt{20}$

$= \sqrt{4}\sqrt{5}$

$= 2\sqrt{5}$

b. $\dfrac{\sqrt{21}}{\sqrt{3}} = \sqrt{\dfrac{21}{3}} = \sqrt{7}$

c. $\sqrt{5}+\sqrt{6}$

as is

d. $\sqrt{21}-\sqrt{3}$

as is

Simplify. (No decimals.)

warm-up

E. $5\sqrt{3}+6\sqrt{3}$

$= \boxed{11\sqrt{3}}$

F. $\boxed{\sqrt{x^2+y^2}}$

as is

$\sqrt{x^2}+\sqrt{y^2} \stackrel{?}{=} x+y$

G. $\sqrt{45}-\sqrt{20}$

$\sqrt{9}\sqrt{5}-\sqrt{4}\sqrt{5}$

$3\sqrt{5}-2\sqrt{5}$

$= \boxed{\sqrt{5}}$

H. $\sqrt[3]{2}\cdot\sqrt[3]{32}$

$\sqrt[3]{64} = \boxed{4}$

rationalize the denominator:

I. $\frac{20}{\sqrt{5}}$ $\sqrt{5}$ $\sqrt{5}$ $= \frac{20\sqrt{5}}{5}$ $= \boxed{4\sqrt{5}}$

$(\sqrt{5})^2$ or $\sqrt{5^2}$

J. $\frac{3\sqrt{6}}{2\sqrt{6}}$ $\sqrt{6}$

$= \frac{3\sqrt{6}}{2 \cdot 6}$

$= \frac{3\sqrt{6}}{12}$ $= \boxed{\frac{\sqrt{6}}{4}}$

Simplify: K. $\sqrt[3]{12} * \sqrt[3]{2}$

$\sqrt[3]{24} = \sqrt[3]{8} \cdot \sqrt[3]{3}$

$= \boxed{2\sqrt[3]{3}}$

Exponent Quiz coming soon!!

20 points

No notes

No calculator