

Simplify

$$(4^3)^{\frac{2}{5}}$$

1

Simplify

$$(3^3)^{\frac{1}{6}}$$

2

Simplify

$$\frac{5^{\frac{2}{3}}}{5^{\frac{1}{3}}}$$

3

Simplify

$$\left(\frac{5^2}{6^2}\right)^{-\frac{1}{2}}$$

4

Simplify

$$\sqrt{3} \cdot \sqrt{12}$$

5

Simplify

$$\sqrt[3]{8} \cdot \sqrt[3]{54}$$

6

Simplify

$$\frac{\sqrt{3}}{\sqrt{27}}$$

7

Simplify

$$\frac{\sqrt[4]{625}}{\sqrt[4]{16}}$$

8

Simplify

$$\sqrt[4]{162}$$

9

Simplify

$$\frac{\sqrt{3}}{\sqrt{5}}$$

10

Simplify

$$\frac{\sqrt[3]{27}}{\sqrt{64}}$$

11

Simplify

$$5\sqrt[3]{11} + 2\sqrt[3]{11}$$

12

Simplify

$$5\sqrt[4]{9} - 3\sqrt[4]{9}$$

13

Simplify

$$7\sqrt[3]{2} + \sqrt[3]{16}$$

14

Simplify

$$32^{\frac{1}{2}} + 72^{\frac{1}{2}}$$

15

Simplify

$$\sqrt[3]{125b^3c^{12}}$$

16

Simplify

$$\sqrt{81m^3n}$$

17

Simplify

$$\sqrt{\frac{x^6}{64y^2}}$$

18

Simplify

$$\frac{\sqrt[5]{x^7}}{\sqrt[4]{x^3}}$$

19

Simplify

$$\frac{7h^{\frac{3}{4}}k^{\frac{1}{3}}}{42h^{\frac{1}{2}}k^{\frac{2}{3}}}$$

20

Properties of Rational Exponents and Radicals

Task Cards Answer Key

1.) $4^{\frac{6}{5}}$

2.) $3^{\frac{1}{2}}$

3.) $5^{\frac{1}{3}}$

4.) $\frac{6}{5}$

5.) 6

6.) $6^3\sqrt{2}$

7.) $\frac{1}{3}$

8.) $\frac{5}{2}$

9.) $3^4\sqrt{2}$

10.) $\frac{\sqrt{15}}{5}$

11.) $\frac{3}{4}$

12.) $7^3\sqrt{11}$

13.) $2^4\sqrt{9}$

14.) $9^3\sqrt{2}$

15.) $10(2^{\frac{1}{2}})$

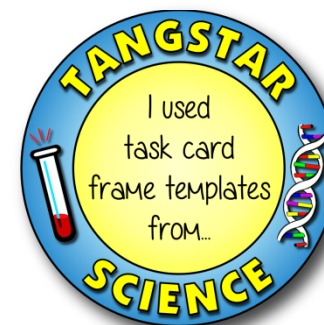
16.) $5bc^4$

17.) $9m\sqrt{mn}$

18.) $\frac{x^3}{8y}$

19.) $2^0\sqrt{x^{13}}$

20.) $\frac{h^{\frac{1}{4}}}{6^{\frac{1}{3}}}$



Properties of Rational Exponents and Radicals Task Cards
Student Answer Sheet

NAME _____

1.)	11.)
2.)	12.)
3.)	13.)
4.)	14.)
5.)	15.)
6.)	16.)
7.)	17.)
8.)	18.)
9.)	19.)
10.)	20.)

Properties of Rational Exponents and Radicals Task Cards
Student Answer Sheet

NAME _____

1.)	11.)
2.)	12.)
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9.)	19.)
10.)	20.)