# Dividing Radicals



### Codebreaker



Α	В	С	D	Е	F	G	Н	I	J	K	L	M
9	6	2	$\sqrt{6}$	3	$\frac{\sqrt{5}}{\sqrt{2}}$	$\sqrt{2}$	$\sqrt{18}$	$3\sqrt{2}$	7	$\sqrt{3}$	$\frac{1}{2}$	$\sqrt{7}$
N	0	Р	Q	R	5	Т	U	V	W	X	У	Z
$\sqrt{5}$	2√5	8	$\frac{\sqrt{2}}{\sqrt{z}}$	$\frac{3}{\overline{z}}$	$\frac{1}{46}$	5	5	1	5√ <del>7</del>	$\frac{1}{2}$	5√3	18

Work out the questions below. Match your answer to a letter in the table above to complete the code in the five boxes at the bottom.

 $\frac{1}{\sqrt{2}}$ 

 $2 \quad \frac{\sqrt{15}}{\sqrt{6}}$ 

 $3 \quad \frac{\sqrt{12}}{\sqrt{3}}$ 

- $4 \qquad \sqrt{15} \div \sqrt{5}$
- $5 \quad \sqrt{2} \div \sqrt{2}$

- $6 \quad \sqrt{21} \div \sqrt{3}$
- $7 \quad 3\sqrt{28} \div \sqrt{7}$
- $8 \quad \sqrt{48} \div \sqrt{8}$
- $9 \quad \frac{3\sqrt{18}}{\sqrt{2}}$

 $10 \quad \frac{48\sqrt{27}}{8\sqrt{3}}$ 

- $\frac{11}{\sqrt{5}} \frac{\sqrt{10}\sqrt{32}}{\sqrt{5}}$
- $12 \quad \frac{\sqrt{14}\sqrt{2}}{\sqrt{2}}$
- $\frac{\sqrt{35}\sqrt{5}}{\sqrt{7}}$
- $14 \quad \sqrt{\frac{1}{4}}$

 $15 \qquad \sqrt{\frac{9}{25}}$ 



22

12



#### **SOLUTION**

#### CD G Ι J В E M $\frac{\sqrt{5}}{\sqrt{2}}$ $\sqrt{6}$ $\sqrt{2}$ $3\sqrt{2}$ $\sqrt{3}$ $\sqrt{7}$ $\sqrt{18}$ 9 2 7 6 3 S N 0 R ٧ W X У Ζ 3 1 $\sqrt{5}$ $2\sqrt{5}$ $5\sqrt{7}$ $5\sqrt{3}$ 8 5 18 1 16

Work out the questions below. Match your answer to a letter in the table above to complete the code in the five boxes at the bottom.

$$\begin{array}{ccc}
1 & \frac{\sqrt{10}}{\sqrt{2}} \\
& \sqrt{5}
\end{array}$$

$$2 \quad \frac{\sqrt{15}}{\sqrt{6}}$$

$$3 \quad \frac{\sqrt{12}}{\sqrt{3}}$$

$$4 \quad \sqrt{15} \div \sqrt{5}$$

$$5 \quad \sqrt{2} \div \sqrt{2}$$

$$\sqrt{2} \div \sqrt{2}$$

$$6 \quad \sqrt{21} \div \sqrt{3}$$

 $\sqrt{7}$ 

$$7 \quad 3\sqrt{28} \div \sqrt{7}$$

6

$$8 \quad \sqrt{48} \div \sqrt{8}$$

 $\sqrt{6}$ 

$$9 \quad \frac{3\sqrt{18}}{\sqrt{2}}$$

$$\frac{11}{\sqrt{5}} \frac{\sqrt{10}\sqrt{32}}{\sqrt{5}}$$

$$12 \quad \frac{\sqrt{14}\sqrt{7}}{\sqrt{2}}$$

$$\frac{\sqrt{35}\sqrt{5}}{\sqrt{7}}$$

$$14 \sqrt{\frac{1}{4}}$$

$$\sqrt{\frac{9}{25}} \quad \sqrt{\frac{3}{5}}$$







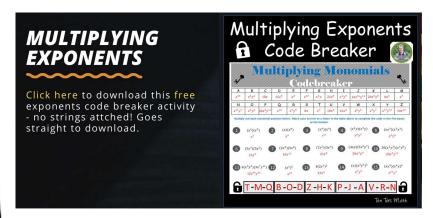




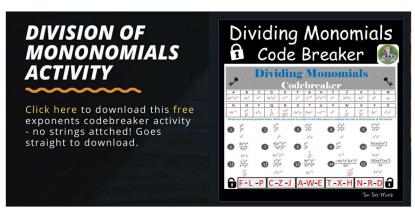




#### Other free math resources you are welcome to download



https://tentorsmath.com/multiplying-monomialscodebreaker-activity/



https://tentorsmath.com/dividing-monomials-codebreaker-activity



https://tentorsmath.com/product-of-roots-codebreakeractivity



https://tentorsmath.com/powers-and-exponents-puzzle



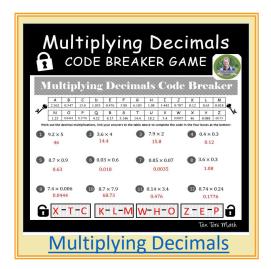
### Access my Free Resource Library

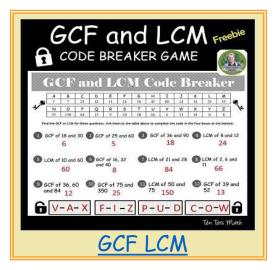
A COLLECTION OF MATH RESOURCES TO BROWSE AND DOWNLOAD

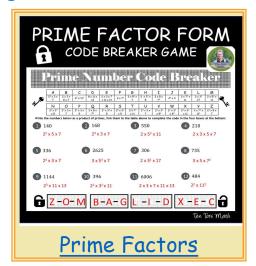
Copy this link to your browser to join my free math resource library

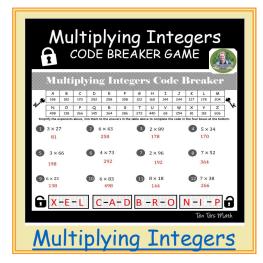
https://bit.ly/TenTorsMathLibrary

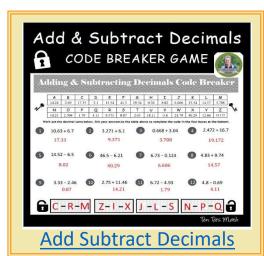
### Some more code-breakers you may like! (click the link)

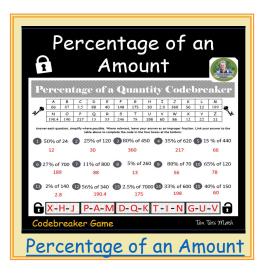




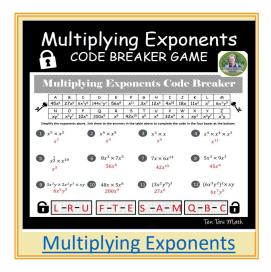


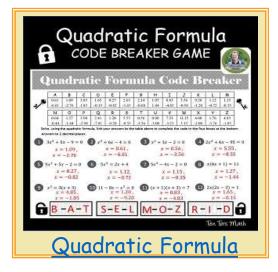


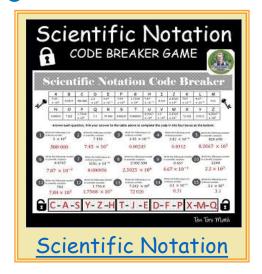


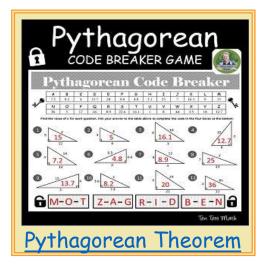


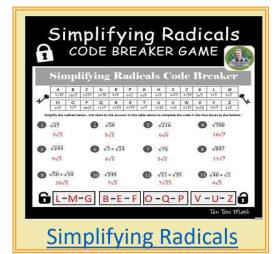
#### Some more code-breakers you may like! (click the link)

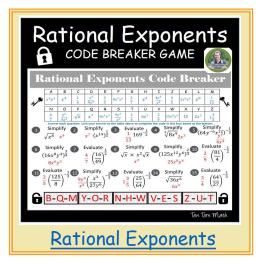




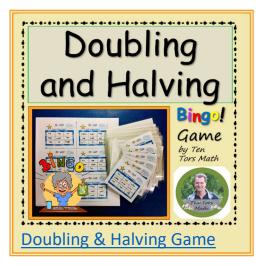


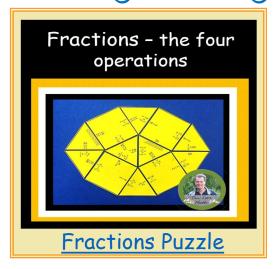


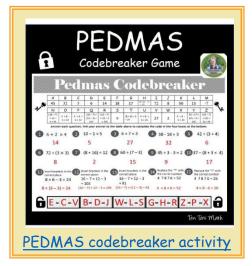




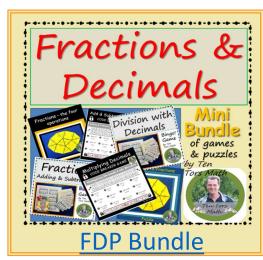
## Some more resources you may like! (click the link)

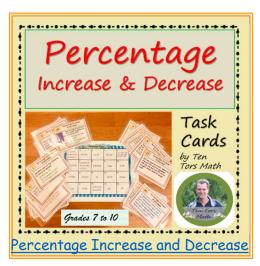












### Some more resources you may like! (click the link)



