

I have a resource library of free math resources you are  
welcome to join



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

<https://bit.ly/TenTorsMathLibrary>

# Calculation with Decimals

## Codebreaker

A	B	C	D	E	F	G	H	I	J	K	L	M
1	3	45	14.9	10.2	2.18	60	10	16.9	3000	4.5	30	2.5
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2	1.25	5.6	15.9	2.25	2.28	300	600	5	30000	54	1.28	22.5

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.

- 1  $1.5 \times 30$       2  $20 \times 0.5$       3  $3.2 + 2.4$       4  $5.8 - 3.3$       5  $15 \div 5$
- 6  $15 \div 0.5$       7  $15 \div 0.05$       8  $4 \times 0.25$       9  $5 \times 0.4$       10  $8.6 + 7.3$
- 11  $7.7 + 2.5$       12  $16.8 + 5.7$       13  $1.5 \div 0.0005$       14  $0.5 \times 2.5$       15  $0.2 \times 6.4$



1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



# SOLUTION

## Calculation with Decimals Codebreaker

A	B	C	D	E	F	G	H	I	J	K	L	M
1	3	45	14.9	10.2	2.18	60	10	16.9	3000	4.5	30	2.5
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2	1.25	5.6	15.9	2.25	2.28	300	600	5	30000	54	1.28	22.5

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.

- |    |                       |    |                       |    |                           |    |                          |    |                          |
|----|-----------------------|----|-----------------------|----|---------------------------|----|--------------------------|----|--------------------------|
| 1  | $1.5 \times 30$<br>45 | 2  | $20 \times 0.5$<br>10 | 3  | $3.2 + 2.4$<br>5.6        | 4  | $5.8 - 3.3$<br>2.5       | 5  | $15 \div 5$<br>3         |
| 6  | $15 \div 0.5$<br>30   | 7  | $15 \div 0.05$<br>300 | 8  | $4 \times 0.25$<br>1      | 9  | $5 \times 0.4$<br>2      | 10 | $8.6 + 7.3$<br>15.9      |
| 11 | $7.7 + 2.5$<br>10.2   | 12 | $16.8 + 5.7$<br>22.5  | 13 | $1.5 \div 0.0005$<br>3000 | 14 | $0.5 \times 2.5$<br>1.25 | 15 | $0.2 \times 6.4$<br>1.28 |



C-H-P

M-B-L

T-A-N

Q-E-Z

J-O-Y



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

## SIMPLIFYING EXPRESSIONS PUZZLE

Click here to download this free puzzle activity - no strings attached! Goes straight to download 📄👉

Simplifying Expressions Code Breaker

**Simplifying Expressions Codebreaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

Simplify the expressions below. Match your answer to a letter in the table above to complete the code in the first boxes at the bottom.

1.  $4x + 3x + 2x = 9x$     2.  $5x + 2x = 7x$     3.  $3x + 4x + x = 8x$     4.  $2x + 7x + 3x = 12x$     5.  $3x + 5x + x = 9x$

6.  $3x + 5x - 2x = 6x$     7.  $8y - 7y = y$     8.  $10x - 7x + 2x = 5x$     9.  $4x + 3x + 2x = 9x$     10.  $2x + 3x + x = 6x$

11.  $3x + 4x + 2x = 9x$     12.  $5x + 3x + 2x = 10x$     13.  $2x + 7x + 3x = 12x$     14.  $3x + 5x + x = 9x$     15.  $4x + 3x + 2x = 9x$

**P - E - Z | H - R - N | L - A - C | J - F - G | K - D - T**

Ten-Ten Math

<https://tentorsmath.com/simplifying-expressions-activity/>

## SIMPLIFYING RATIOS PUZZLE

Click here to download this free puzzle activity - no strings attached! Goes straight to download 📄👉

Simplifying Ratios Code Breaker

**Simplifying Ratios Codebreaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

Simplify the ratios below. Match your answer to a letter in the table above to complete the code in the first boxes at the bottom.

1.  $\frac{4}{8} = \frac{1}{2}$     2.  $\frac{5}{15} = \frac{1}{3}$     3.  $\frac{40}{80} = \frac{1}{2}$     4.  $\frac{4}{6} = \frac{2}{3}$     5.  $\frac{2}{6} = \frac{1}{3}$

6.  $\frac{20}{40} = \frac{1}{2}$     7.  $\frac{7}{28} = \frac{1}{4}$     8.  $\frac{12}{24} = \frac{1}{2}$     9.  $\frac{4}{6} = \frac{2}{3}$     10.  $\frac{24}{40} = \frac{3}{5}$

11.  $\frac{27}{18} = \frac{3}{2}$     12.  $\frac{16}{48} = \frac{1}{3}$     13.  $\frac{7}{28} = \frac{1}{4}$     14.  $\frac{100}{100} = 1$     15.  $\frac{15}{20} = \frac{3}{4}$

**K - B - P | H - D - N | S - M - T | J - W - L | F - Y - R**

Ten-Ten Math

<https://tentorsmath.com/simplifying-ratios-activity/>

## SOLVING TWO STEP EQUATIONS PUZZLE

Click here to download this free puzzle activity - no strings attached! Goes straight to download 📄👉

Solving Equations CODE BREAKER GAME

**Solving Equations Code Breaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

Solve the equations below. Match your answer to a letter above to complete the code in the first boxes at the bottom.

1.  $3x + 5 = 14$     2.  $3x - 13 = 23$     3.  $4x - 19 = 1$     4.  $2x + 8 = 24$     5.  $x = 3$     6.  $x = 12$     7.  $x = 5$     8.  $x = 24$

9.  $2x + 6 = 24$     10.  $8x + 7 = 15$     11.  $2x - 11 = 15$     12.  $x + 3 = 5$     13.  $x = 20$

14.  $\frac{x}{5} + 4 = 2$     15.  $\frac{x}{8} + 1 = 8$     16.  $\frac{x}{5} + 16 = 19$     17.  $\frac{x}{5} + 2 = 8$     18.  $x = 18$     19.  $x = 20$     20.  $x = 27$     21.  $x = 30$

**S - B - P | X - T - C | G - M - K | Z - A - F**

Ten-Ten Math

<https://tentorsmath.com/solving-two-step-equations-activity/>

## ADDITION OF FRACTIONS PUZZLE

Click here to download this free puzzle activity - no strings attached! Goes straight to download 📄👉

Adding Fractions Code Breaker

**Adding Fractions Codebreaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

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

1.  $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$     2.  $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$     3.  $\frac{1}{2} + \frac{1}{2} = 1$     4.  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$     5.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$

6.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     7.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     8.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     9.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     10.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$

11.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     12.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     13.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     14.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     15.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$

16.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     17.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     18.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     19.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$     20.  $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$

**M - R - N | V - H - K | C - A - P | F - J - X | T - B - S**

Ten-Ten Math

<https://tentorsmath.com/addition-of-fractions-activity>

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

## Multiplying Decimals CODE BREAKER GAME

### Multiplying Decimals Code Breaker

A	B	C	D	E	F	G	H	I	J	K	L	M
2.302	0.547	15.8	1.033	0.476	3.88	6.103	1.08	1.442	0.707	0.12	0.63	0.018
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1.23	0.0416	0.779	4.23	8.57	3.146	12.4	16.2	5.4	0.0057	49	0.086	0.573

Work out the decimal multiplications, link your answers to the table above to complete the code in the four boxes at the bottom:

- $9.2 \times 5$   
46
- $3.6 \times 4$   
14.4
- $7.9 \times 2$   
15.8
- $0.4 \times 0.3$   
0.12
- $0.7 \times 0.9$   
0.63
- $0.03 \times 0.6$   
0.0018
- $0.05 \times 0.07$   
0.0035
- $3.6 \times 0.3$   
1.08
- $7.4 \times 0.006$   
0.0444
- $8.7 \times 7.9$   
68.73
- $0.14 \times 3.4$   
0.476
- $0.74 \times 0.24$   
0.1776

X-T-C K-L-M W-H-O Z-E-P

Ten Tors Math

[Multiplying Decimals](#)

## GCF and LCM CODE BREAKER GAME

### GCF and LCM Code Breaker

A	B	C	D	E	F	G	H	I	J	K	L	M
3	7	25	12	11	34	39	45	69	14	16	29	31
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
55	150	84	15	9	10	30	66	6	13	11	0	8

Find the GCF or LCM for these questions, link them to the table above to complete the code in the four boxes at the bottom:

- GCF of 18 and 30  
6
- GCF of 25 and 60  
5
- GCF of 36 and 90  
18
- LCM of 8 and 12  
24
- LCM of 10 and 60  
60
- GCF of 16, 32 and 40  
8
- LCM of 21 and 28  
84
- LCM of 2, 6 and 11  
66
- GCF of 36, 60 and 84  
12
- GCF of 75 and 350  
25
- LCM of 50 and 75  
150
- GCF of 39 and 52  
13

V-A-X F-I-Z P-U-D C-O-W

Ten Tors Math

[GCF LCM](#)

## PRIME FACTOR FORM CODE BREAKER GAME

### Prime Number Code Breaker

A	B	C	D	E	F	G	H	I	J	K	L	M
2	3	5	7	11	13	17	19	23	29	31	37	41
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
48	27	12	24	6	36	18	9	54	27	18	9	27

Write the numbers below as a product of primes, link them to the table above to complete the code in the four boxes at the bottom:

- 140  
 $2^2 \times 5 \times 7$
- 168  
 $2^3 \times 3 \times 7$
- 550  
 $2 \times 5^2 \times 11$
- 210  
 $2 \times 3 \times 5 \times 7$
- 336  
 $2^4 \times 3 \times 7$
- 2625  
 $3 \times 5^3 \times 7$
- 306  
 $2 \times 3^3 \times 17$
- 735  
 $3 \times 5 \times 7^2$
- 1144  
 $2^3 \times 11 \times 13$
- 396  
 $2^2 \times 3^2 \times 11$
- 6006  
 $2 \times 3 \times 7 \times 11 \times 13$
- 484  
 $2^2 \times 11^2$

Z-O-M B-A-G L-I-D X-E-C

Ten Tors Math

[Prime Factors](#)

## Multiplying Integers CODE BREAKER GAME

### Multiplying Integers Code Breaker

A	B	C	D	E	F	G	H	I	J	K	L	M
196	192	170	292	258	358	122	360	144	244	107	178	204
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
498	138	266	145	364	286	272	440	68	254	81	118	606

Simplify the expressions above, link them to the answers in the table above to complete the code in the four boxes at the bottom:

- $3 \times 27$   
81
- $6 \times 43$   
258
- $2 \times 89$   
178
- $5 \times 34$   
170
- $3 \times 66$   
198
- $4 \times 73$   
292
- $2 \times 96$   
192
- $7 \times 52$   
364
- $6 \times 23$   
138
- $6 \times 83$   
498
- $8 \times 18$   
144
- $7 \times 38$   
266

X-E-L C-A-D B-R-O N-I-P

Ten Tors Math

[Multiplying Integers](#)

## Add & Subtract Decimals CODE BREAKER GAME

### Adding & Subtracting Decimals Code Breaker

A	B	C	D	E	F	G	H	I	J	K	L	M
14.24	2.59	17.31	3.1	13.84	41.3	19.34	9.26	8.03	6.66	15.14	14.57	17.08
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14.21	2.908	1.79	4.11	9.71	9.87	2.65	18.11	3.6	24.79	40.29	12.66	10.17

Work out the decimal sums below, link your answers to the table above to complete the code in the four boxes at the bottom:

- $10.63 + 6.7$   
17.33
- $3.271 + 6.1$   
9.371
- $0.668 + 3.04$   
3.708
- $2.472 + 16.7$   
19.172
- $14.52 - 6.5$   
8.02
- $46.5 - 6.21$   
40.29
- $6.73 - 0.124$   
6.606
- $4.83 + 9.74$   
14.57
- $3.33 - 2.46$   
0.87
- $2.75 + 11.46$   
14.21
- $6.72 - 4.93$   
1.79
- $4.8 - 0.69$   
4.11

C-R-M Z-I-X J-L-S N-P-Q

Ten Tors Math

[Add Subtract Decimals](#)

## Percentage of an Amount CODE BREAKER GAME

### Percentage of a Quantity Codebreaker

A	B	C	D	E	F	G	H	I	J	K	L	M
66	87	3.5	88	40	348	175	30	28	360	56	12	189
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
100.4	100	217	13	55	246	78	198	60	86	12	22	11

Answer each question, simplify where possible. Where relevant, leave your answer as an improper fraction. Link your answer to the table above to complete the code in the four boxes at the bottom:

- 50% of 24  
12
- 25% of 120  
30
- 80% of 450  
360
- 35% of 620  
217
- 15% of 440  
66
- 27% of 700  
189
- 11% of 800  
88
- 5% of 260  
13
- 80% of 70  
56
- 65% of 120  
78
- 2% of 140  
2.8
- 56% of 340  
190.4
- 2.5% of 7000  
175
- 33% of 600  
198
- 40% of 150  
60

X-H-J P-A-M D-Q-K T-I-N G-U-V

Codebreaker Game Ten Tors Math

[Percentage of an Amount](#)

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

## Multiplying Exponents CODE BREAKER GAME

**Multiplying Exponents Code Breaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
45x <sup>2</sup>	27x <sup>3</sup>	6x <sup>2</sup> y <sup>3</sup>	144x <sup>2</sup> y <sup>2</sup>	56x <sup>4</sup>	x <sup>11</sup>	3x <sup>2</sup>	12x <sup>2</sup>	4x <sup>10</sup>	18x	11x <sup>2</sup>	x <sup>2</sup>	6x <sup>2</sup> y <sup>2</sup>
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
xy	xy <sup>2</sup>	10x <sup>2</sup>	200x <sup>6</sup>	x <sup>2</sup>	42x <sup>10</sup>	x <sup>3</sup>	32x <sup>2</sup>	x	xy	x <sup>2</sup> y	x <sup>2</sup> y	x <sup>2</sup> y

Simplify the exponents above, link them to the answers in the table above to complete the code in the four boxes at the bottom:

- $x^5 \times x^2$
- $x^4 \times x^5$
- $x^3 \times x$
- $x^4 \times x^4 \times x^3$
- $\frac{1}{x^2} \times x^{10}$
- $8x^3 \times 7x^5$
- $7x \times 6x^{14}$
- $5x^3 \times 9x^3$
- $3x^2y \times 2x^2y^3 \times xy$
- $40x \times 5x^8$
- $(3x^2y^3)^3$
- $(6x^2y^3)^2 \times xy$

**L-R-U F-T-E S-A-M Q-B-C**

Ten Tors Math

### Multiplying Exponents

## Quadratic Formula CODE BREAKER GAME

**Quadratic Formula Code Breaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
W01	199	180	160	821	241	214	100	835	254	929	112	115
-0.61	-2.76	1.81	-0.93	-0.52	-0.69	4.84	1.44	-4.93	-4.90	-1.29	-0.72	-4.31
M	O	P	Q	R	S	T	U	V	W	X	Y	Z
0.04	1.27	1.68	2.41	1.20	3.55	0.79	9.00	3.20	11.15	4.08	3.70	4.82
0.84	1.44	0.25	1.84	0.76	1.55	-1.54	1.68	-2.51	1.16	-1.00	3.78	-1.81

Solve, using the quadratic formula, link your answers to the table above to complete the code in the four boxes at the bottom. Answer to 2 decimal places.

- $3x^2 + 5x - 9 = 0$
- $x^2 + 6x - 4 = 0$
- $5x^2 + 3x - 2 = 0$
- $2x^2 + 6x - 95 = 0$
- $9x^2 + 5x - 2 = 0$
- $6x^2 = 2x + 4$
- $5x^2 - 4x - 2 = 0$
- $x(6x + 1) = 11$
- $x = 0.27$
- $6x = 1.12$
- $x = 1.15$
- $x = 1.27$
- $x = -0.82$
- $x = -0.72$
- $x = -0.35$
- $x = -1.44$
- $x^2 = 12x + 31$
- $11 - 8x - x^2 = 0$
- $x + 13x + 4 = 7$
- $2x(2x - 3) = 1$

**B-A-T S-E-L M-O-Z R-I-D**

Ten Tors Math

### Quadratic Formula

## Scientific Notation CODE BREAKER GAME

**Scientific Notation Code Breaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
7.45	8.041	98.80	22	4.42	3.44	17.500	7.11	4.92	2.902	101	1.47	0.11
4.42	2.76	1.81	-0.93	-0.52	-0.69	4.84	1.44	-4.93	-4.90	-1.29	-0.72	-4.31
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1.999	2.82	17.500	1.1	3.880	4.800	0.0000	0.0000	2.000	2.2	2.200	2.18	0.011
4.42	2.76	1.81	-0.93	-0.52	-0.69	4.84	1.44	-4.93	-4.90	-1.29	-0.72	-4.31

Answer each question, link your answer to the table above to complete the code in the four boxes at the bottom.

- Write the following number in scientific notation:  $5 \times 10^5$
- Write the following number in scientific notation:  $7.45$
- Write the following number in scientific notation:  $2.45 \times 10^{11}$
- Write the following number in scientific notation:  $5.15 \times 10^{11}$
- Write the following number in scientific notation:  $8.267 \times 10^3$
- Write the following number in scientific notation:  $0.0797$
- Write the following number in scientific notation:  $854 \times 10^3$
- Write the following number in scientific notation:  $2.900$
- Write the following number in scientific notation:  $0.567$
- Write the following number in scientific notation:  $2284$
- Write the following number in scientific notation:  $7.84 \times 10^2$
- Write the following number in scientific notation:  $1.7568 \times 10^3$
- Write the following number in scientific notation:  $72.020$
- Write the following number in scientific notation:  $0.31$
- Write the following number in scientific notation:  $3.1 \times 10^1$
- Write the following number in scientific notation:  $3.1$

**C-A-S Y-Z-H T-J-E D-F-P X-M-Q**

Ten Tors Math

### Scientific Notation

## Pythagorean CODE BREAKER GAME

**Pythagorean Code Breaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
11	8.2	11.7	10	8.9	1.4	1.1	2.5	1.4	1.5	1.9	1.5	2.5
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
16	5	10	20	8.9	22.4	10.1	1	84	1.5	10	12.7	

Find the value of a for each question, link your answer to the table above to complete the code in the four boxes at the bottom.

- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 

**M-O-T Z-A-G R-I-D B-E-N**

Ten Tors Math

### Pythagorean Theorem

## Simplifying Radicals CODE BREAKER GAME

**Simplifying Radicals Code Breaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
7.03	18.7	27.9	27.8	9.71	6.2	6.04	2.9	3.13	4.78	2.5	1.3	5.2
2.8	5.9	10.5	11.7	4.13	4.13	2.07	7.15	7.5	2.11	6.16	12.3	4.3
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2.8	5.9	10.5	11.7	4.13	4.13	2.07	7.15	7.5	2.11	6.16	12.3	4.3

Simplify the radical below, link them to the answers in the table above to complete the code in the four boxes at the bottom.

- $\sqrt{27}$
- $\sqrt{50}$
- $\sqrt{216}$
- $\sqrt{700}$
- $\sqrt[3]{3}$
- $\sqrt{52}$
- $\sqrt[3]{6}$
- $10\sqrt{7}$
- $\sqrt{243}$
- $\sqrt{3} \times \sqrt{24}$
- $\sqrt{75}$
- $\sqrt{847}$
- $\sqrt[3]{9}$
- $\sqrt{62}$
- $5\sqrt{3}$
- $11\sqrt{7}$
- $\sqrt{50} \times \sqrt{10}$
- $\sqrt{245}$
- $\sqrt{21} \times \sqrt{35}$
- $\sqrt{40} \times \sqrt{2}$
- $10\sqrt{5}$
- $7\sqrt{5}$
- $7\sqrt{15}$
- $4\sqrt{5}$

**L-M-G B-E-F O-Q-P V-U-Z**

Ten Tors Math

### Simplifying Radicals

## Rational Exponents CODE BREAKER GAME

**Rational Exponents Code Breaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
$x^2y^3$	$x^4$	$\frac{1}{x}$	$\frac{1}{9x^2}$	$\frac{2}{x}$	$10x^2y^3$	$\frac{2}{x^2}$	$x^3$	$6x^2$	$\frac{4}{2x^2}$	$\frac{4}{2x^2y^3}$	$x^6$	$\frac{1}{13}$
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
$\frac{1}{x}$	$\frac{1}{x^2}$	$\sqrt{x}$	$x^2$	$10x^2y^3$	$\frac{9x^2}{2}$	$\frac{1}{x}$	$6x^3$	$\frac{2}{x}$	$25x^2y^4$	$13$	$2x^2$	$\frac{1}{9}$

Answer each question, link your answer to the table above to complete the code in the four boxes at the bottom.

- Simplify  $\sqrt{x^8}$
- Simplify  $x^2(x^{1/2})^2$
- Evaluate  $\frac{1}{13}$
- Simplify  $\sqrt[3]{8x^3 \cdot 2x^2}$
- Simplify  $(4x^2y^3)^{1/2}$
- Evaluate  $\frac{4}{7}(\frac{16}{49})^{1/2}$
- Simplify  $\sqrt{x} \times x^2 \sqrt{x}$
- Simplify  $(125x^{12}y^6)^{1/3}$
- Evaluate  $\frac{2}{9}(\frac{81}{4})^{1/2}$
- Evaluate  $\frac{2}{5}(\frac{125}{8})^{1/3}$
- Simplify  $\frac{9y^4}{x^2}(x^2)^{-3}$
- Evaluate  $\frac{3}{5}(\frac{25}{64})^{1/2}$
- Evaluate  $\sqrt[3]{36x^3}$
- Evaluate  $\frac{3}{4}(\frac{64}{27})^{1/3}$

**B-Q-M Y-O-R N-H-W V-E-S Z-U-T**

Ten Tors Math

### Rational Exponents

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


### Doubling and Halving



**Bingo!**  
Game  
by Ten Tors Math

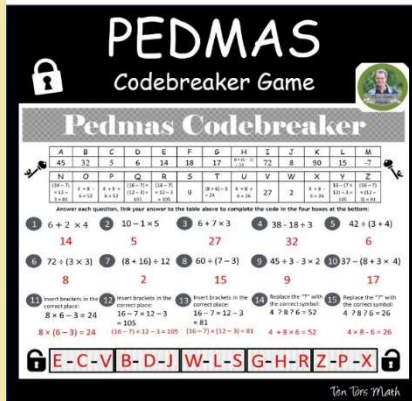
[Doubling & Halving Game](#)

### Fractions - the four operations



[Fractions Puzzle](#)

### PEDMAS Codebreaker Game



**Pedmas Codebreaker**

A	B	C	D	E	F	G	H	I	J	K	L	M
45	32	5	6	14	18	17	10	73	8	90	15	-7
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
100	10	100	100	100	100	100	100	100	100	100	100	100

Answer each question, link your answer to the table above to complete the code in the four boxes at the bottom!

1  $6 + 2 \times 4 = 14$     2  $10 - 1 \times 5 = 5$     3  $6 + 7 \times 3 = 27$     4  $38 - 18 \div 3 = 32$     5  $42 \div (3 + 4) = 6$

6  $72 \div (3 \times 3) = 8$     7  $(8 + 16) \div 12 = 2$     8  $60 \div (7 - 3) = 15$     9  $45 \div 3 - 3 \times 2 = 9$     10  $37 - (8 + 3 \times 4) = 17$

11 Shortbread in the tin:  $5 \times 6 - 3 = 24$     12 Shortbread in the tin:  $36 - 7 \times 12 - 3 = 105$     13 Shortbread in the tin:  $100 - 71 + 12 - 3 = 108$     14 Shortbread in the tin:  $100 - 71 + 12 - 3 = 108$     15 Shortbread in the tin:  $100 - 71 + 12 - 3 = 108$


16 Replace the "T" with the correct symbol:  $4 \times 8 \div 6 = 26$     17 Replace the "T" with the correct symbol:  $4 \times 8 \div 6 = 26$

**E - C - V | B - D - J | W - L - S | G - H - R - Z - P - X**

Ten Tors Math

[PEDMAS codebreaker activity](#)


### Fractions, Decimals and Percentages



**Bingo!**  
Game  
by Ten Tors Math

[FDP Bingo Game](#)


### Fractions & Decimals



**Mini Bundle**  
of games & puzzles  
by Ten Tors Math

[FDP Bundle](#)

### Percentage Increase & Decrease




**Task Cards**  
by Ten Tors Math

Grades 7 to 10

[Percentage Increase and Decrease](#)

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

**Spheres**  
Volume & Surface Area



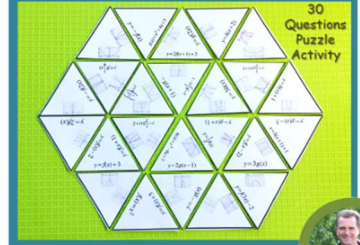
**Bingo! Game**  
by Ten Tors Math

Grades 8 to 11  
Unique bingo cards for up to 26 students

[Volume & Surface Area of Spheres](#)

**Quadratic Graph Transformations**

Graph Transformations Puzzle Activity

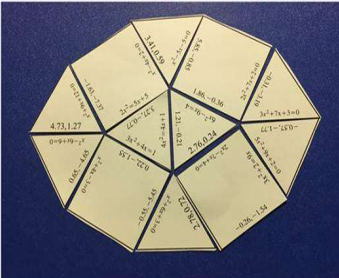


30 Questions  
Puzzle Activity

**Puzzle**

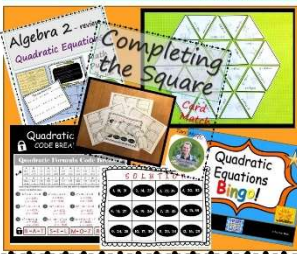
[Quadratic Graph Transformations](#)

Using the Quadratic Formula to solve equations



**The Quadratic Formula**


**Algebra 2**  
Quadratic Review Activities



**Bundle**  
of games, puzzles and challenges  
by Ten Tors Math

[Algebra 2 Quadratic Bundle](#)

**Percentage Increase & Decrease**




**Task Cards**  
by Ten Tors Math

Grades 7 to 10

[Percentage Increase and Decrease](#)

**Completing the Square**



**Card Match**  
by Ten Tors Math

[Completing the Square](#)