



Decode the Maths Joke



Multiplying and Dividing Surds

Calculate a value for each of the letters of the alphabet.

| | | |
|----------|--|-------------|
| A | $\sqrt{7} \times \sqrt{5}$ | $\sqrt{35}$ |
| B | $\sqrt{2} \times \sqrt{3}$ | $\sqrt{6}$ |
| C | $\sqrt{15} \div \sqrt{5}$ | $\sqrt{3}$ |
| D | $\sqrt{6} \div \sqrt{3}$ | $\sqrt{2}$ |
| E | $\sqrt{14} \div \sqrt{2}$ | $\sqrt{7}$ |
| F | $\sqrt{2} \times \sqrt{8}$ | 4 |
| G | $\sqrt{65} \div \sqrt{5}$ | $\sqrt{13}$ |
| H | $\sqrt{5} \times \sqrt{11}$ | $\sqrt{55}$ |
| I | $\sqrt{2} \times \sqrt{6} \times \sqrt{3}$ | 6 |
| J | $\sqrt{10} \div \sqrt{10}$ | 1 |
| K | $\sqrt{5} \times \sqrt{5}$ | 5 |
| L | $\sqrt{66} \div \sqrt{6}$ | $\sqrt{11}$ |
| M | $\sqrt{21} \times \sqrt{3} \div \sqrt{7}$ | 3 |

| | | |
|----------|--|-------------|
| N | $\sqrt{5} \times \sqrt{2} \times \sqrt{3}$ | $\sqrt{30}$ |
| O | $\sqrt{10} \div \sqrt{2}$ | $\sqrt{5}$ |
| P | $(\sqrt{9})^2$ | 9 |
| Q | $\sqrt{6} \times \sqrt{2} \div \sqrt{3}$ | 2 |
| R | $\sqrt{2} \times \sqrt{7}$ | $\sqrt{14}$ |
| S | $(\sqrt{4})^2 \times (\sqrt{5})^2$ | 20 |
| T | $\sqrt{6} \times \sqrt{11} \div \sqrt{2}$ | $\sqrt{33}$ |
| U | $\sqrt{2} \times \sqrt{5} \times \sqrt{10}$ | 10 |
| V | $\sqrt{5} \times \sqrt{6} \div \sqrt{3}$ | $\sqrt{10}$ |
| W | $\sqrt{3} \times \sqrt{7}$ | $\sqrt{21}$ |
| X | $(\sqrt{4})^3$ | 8 |
| Y | $\sqrt{2} \times \sqrt{3} \times \sqrt{7}$ | $\sqrt{42}$ |
| Z | $(\sqrt{3})^2 \times \sqrt{5} \div \sqrt{3}$ | $\sqrt{15}$ |

Now decode the joke....

| | | | | | | | | | | | | | | |
|-------------|-------------|-------------|--|-------------|-------------|------------|--|----|---|----|-------------|-------------|------------|--|
| $\sqrt{21}$ | $\sqrt{55}$ | $\sqrt{42}$ | | $\sqrt{35}$ | $\sqrt{14}$ | $\sqrt{7}$ | | 20 | 2 | 10 | $\sqrt{35}$ | $\sqrt{14}$ | $\sqrt{7}$ | |
| W | H | Y | | A | R | E | | S | Q | U | A | R | E | |

| | | | | | | | | | | | | | | | |
|-------------|------------|------------|-------------|----|--|-------------|------------|-------------|------------|-------------|--|----|-------------|------------|---|
| $\sqrt{14}$ | $\sqrt{5}$ | $\sqrt{5}$ | $\sqrt{33}$ | 20 | | $\sqrt{30}$ | $\sqrt{7}$ | $\sqrt{10}$ | $\sqrt{7}$ | $\sqrt{14}$ | | 20 | $\sqrt{35}$ | $\sqrt{2}$ | ? |
| R | O | O | T | S | | N | E | V | E | R | | S | A | D | ? |

| | | | | | | | | | | | | | | |
|------------|------------|------------|-------------|----|----|------------|--|-------------|-------------|------------|-------------|---|-------------|------------|
| $\sqrt{6}$ | $\sqrt{7}$ | $\sqrt{3}$ | $\sqrt{35}$ | 10 | 20 | $\sqrt{7}$ | | $\sqrt{33}$ | $\sqrt{55}$ | $\sqrt{7}$ | $\sqrt{42}$ | , | $\sqrt{14}$ | $\sqrt{7}$ |
| B | E | C | A | U | S | E | | T | H | E | Y | , | R | E |

| | | | | | | | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|----|--|---|------------|----|---|-------------|---|-------------|------------|---|
| $\sqrt{35}$ | $\sqrt{11}$ | $\sqrt{21}$ | $\sqrt{35}$ | $\sqrt{42}$ | 20 | | 9 | $\sqrt{5}$ | 20 | 6 | $\sqrt{33}$ | 6 | $\sqrt{10}$ | $\sqrt{7}$ | ! |
| A | L | W | A | Y | S | | P | O | S | I | T | I | V | E | ! |