Direct Proportion GREEN

1) A is directly proportional to B and when

A = 4, B = 8. Find A when B = 44.

2) C is directly proportional to the square of D and when C = 32, D = 4. Find C when D = 3.

3) E is directly proportional to the square root of F and when E = 18, F = 9. Find F when

E = 30.

4) G is directly proportional to the cube of H and when G = 54, H = 3. Find G when H = 2.

Inverse Proportion GREEN

1) P is inversely proportional to Q and when

P = 2, Q = 2. Find P when Q = 8.

2) R is inversely proportional to the square root of S and when R = 1, S = 36. Find R when S = 9.

3) T is inversely proportional to the square of U and when T = 0.5, U = 2. Find U when

T = 0.125.

4) V is inversely proportional to the cube of W and when V = 5, W = 1. Find V when W = 2.

Direct Proportion AMBER

|  |  |
| --- | --- |
| **A** is directly proportional to **B** and when A = 4, B = 8. Find A when B = 44. | 16 |
| **C** is directly proportional to **the** **square of D** and when C = 32, D = 4. Find C when D = 3. | 25 |
| **E** is directly proportional to **the square root of F** and when E = 18, F = 9. Find F when E = 30. | 22 |
| **G** is directly proportional to **the cube of H** and whenG = 54, H = 3. Find G when H = 2. | 18 |

Inverse Proportion AMBER

|  |  |
| --- | --- |
| **P** is inversely proportional to **Q** and when P = 2, Q = 2. Find P when Q = 8. | 4 |
| **R** is inversely proportional to **the square root of S** and when R = 1, S = 36. Find R when S = 9 | 0.5 |
| **T** is inversely proportional to **the square of U** and when T = 0.5, U = 2. Find U when T = 0.125. | 0.625 |
| **V** is inversely proportional to **the cube of W** and whenV = 5, W = 1. Find V when W = 2. | 6 |

Direct Proportion RED

 1) A is directly proportional to B and when

A = 4, B = 8. Find A when B = 44.

 A α B

 A = kB

 When A = 4, B = 8

 4 = k8

\_\_ = k

2) C is directly proportional to the square of D and when C = 32, D = 4. Find C when D = 3.

 C α D²

 C = kD²

 When C = 32, D = 4

3) E is directly proportional to the square root of F and when E = 18, F = 9. Find F when

E = 30.

 E α √F

4) G is directly proportional to the cube of H and when G = 54, H = 3. Find G when H = 2.

 G α H³

Inverse Proportion RED

1) P is inversely proportional to Q and when

P = 2, Q = 2. Find P when Q = 8.

 P α 1/Q

 P = k/Q

 When P = 2, Q = 2

 2 = k/2

 \_\_ = k

2) R is inversely proportional to the square root of S and when R = 1, S = 36. Find R when S = 9.

 R α 1/√S

 R = k/√S

 When R = 1, S = 36

3) T is inversely proportional to the square of U and when T = 0.5, U = 2. Find U when

T = 0.125.

 T α 1/U²

4) V is inversely proportional to the cube of W and when V = 5, W = 1. Find V when W = 2.

 V α 1/W³