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 when  G = 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 when  V = 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