Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the famous quote.

|                |    | а        | h | S | n |     |
|----------------|----|----------|---|---|---|-----|
| h > a > n      | 12 |          |   |   |   | a = |
| s > a > n      | 7  |          |   |   |   | h = |
| h + 3 = s + n  | 9  |          |   |   |   | s = |
|                | 6  |          |   |   |   | n = |
|                |    | L        |   |   |   |     |
|                |    | i        | g | е | t |     |
| $e \div g = 2$ | 11 |          |   |   |   | i = |
| t > e          | 10 |          |   |   |   | g = |
|                | 8  |          |   |   |   | e = |
|                | 5  |          |   |   |   | t = |
|                |    |          |   |   |   |     |
|                |    | r        | k | 0 | n |     |
| o + k = r      | 4  | <u> </u> |   |   |   | r = |
| r < p          | 3  |          |   |   |   | k = |
| o × r = r      | 2  |          |   |   |   | 0 = |
|                | 1  |          |   |   |   | p = |
|                | L  |          |   |   |   |     |

**Cryptogram** (Parenthesis separate double digits; they have no other meaning.) "7 c(12)786 89 61 9(11)3165(10)3 (11)(12)76 8(11)9 w(10)72(10)9(11) 1862."

(10)65<mark>1</mark>89(12) 431v(10)3b



Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the famous quote.



**Cryptogram** (Parentheses separate double digits; they have no other meaning.) "(10)3214 fo(11) 80u(11)795v97 61d 59(10) 0(10)39(11)791jo8 (10)39 (12)(11)2v259g9 (10)0 do 70, (10)00."

Vo5(10)62(11)9



Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the famous quote.



**Cryptogram** (Parenthesis separate double digits; they have no other meaning.) "8(11)39 84 (11)2p4 4v4(10) 92 d2 8i9(11) 4364, 84 7u69 l43(10)1 fi(10)69 92 d2 8i9(11) dili(12)41c4." 637u4l 52(11)1621



Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the famous quote.



**Cryptogram** (Parentheses separate double digits; they have no other meaning.) "(10)(12)t (10)f th7 2(12)73t8(10)n3 (10)f 3t(12)47nt3 c(10)(11)7 (11)(10)3t (10)f th7 c176t897 84763 6n4 483c(10)971873."

7557n 56ng71



Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the famous quote.



**Cryptogram** (Parentheses separate double digits; they have no other meaning.) "(12)77 29(12)2 4782213s 8s 5(10)2 4(10)7d." 15478s9 (11)3(10)613b





Answers: b = 6; f = 8; l = 1; s = 5If *f* is greater than or equal to 371 minus 365 (# of days in a year), *f* must be 6 or 8. If / times any positive # equals the same #, / must be 1. If *f* is greater than / plus *s*, *f* must be 8 for the statement to be true. Since *s* is less than *b*, *s* 



Answers: t = 7; o = 12; g = 2; h = 10If *t* equals 21 minus *o* plus *g*, *t* must be either 7, or 12, and *o* and *g* must be either 2, 7, or 12. Therefore, *h* is then 10. If *o* equals *t* plus *h* minus 5, *o* must be 12 and *t* must be 7 for the equation to be true. *g* is then 2.

**Page 17**: "Think for yourselves and let others enjoy the privilege to do so, too."

| 1/0  | tt n / P | ~~ |
|------|----------|----|
| VIII | 1 11     | -  |
|      | cun      | ~  |

|   | h | i | n | k |
|---|---|---|---|---|
| 4 | - | _ | _ | + |
| 3 | + | _ | _ | _ |
| 2 | _ | + | _ | _ |
| 1 | _ | _ | + | _ |

Answers: h = 3; i = 2; n = 1; k = 4

If *h* is greater than *i*, and *h* divided by *i* plus 2.5 = k, *h* must be 3, *i* must be 2, and *k* must be 4 for the equation to be true. *n* is then 1.



Answers: y = 8; e = 9; I = 5; s = 7

If / plus s plus y = 20, /, s, and y must be 5, 7, or 8. Therefore, e must be 9. Since / is less than s and y, / must be 5. Since s is less than y, but greater than /, s must be 7. y is then 8. Answers: t = 10; p = 12; a = 6; r = 11If t is less than p and r, t must be 6 or 10. If a equals 6, t must be 10. Since p is greater than r and t, p must be 12, the largest number. Since r is less than p, but greater than t, r must be 11.

Page 18: "Try not to become a man of<br/>success, but rather try to become a man of<br/>value."Albert Einstein



Answers: v = 3; n = 12; a = 4; t = 11If v plus 6 equals t minus a minus 2, t must be 11, and a and v must be either 3 or 4 for the equation to be true. Therefore, n must be 12. Since v is less than a, v must be 3 and a must be 4.

|    | 0 | h | е | m |
|----|---|---|---|---|
| 2  | - | _ | _ | + |
| 1  |   | + |   | _ |
| 10 | Ι | - | + | _ |
| 9  | + | _ | _ | _ |

Answers: o = 9; h = 1; e = 10; m = 2If o is less than all double digits and greater than h, o must be either 2 or 9, and since m is not 1 or 10, m must also be either 2 or 9. Since e is greater than 9, e must be 10. If m equals 13 minus e plus h, m must be 2 and h must be 1 for the equation to be true. o is then 9.

|   | f | r | k | i |
|---|---|---|---|---|
| 5 | + | _ | - | - |
| 7 |   | + | _ | _ |
| 6 |   | — | + | _ |
| 8 | _ | _ | _ | + |

Answers: f = 5; r = 7; k = 6; i = 8If *f* equals *i* minus 3, *f* must be 5, and *i* must be 8 for the equation to be true. If *i* equals 1 plus *r*, *r* must be 7 for the equation to be true. *k* is then 6. **Page 27:** "Those who know how to think need no teachers." *Mahatma Gandhi* 



Answers: t = 9; h = 6; o = 10; w = 7If *t* is not 7, and *t* is greater than *w*, but less than *o*, *t* must be a middle number; therefore, *t* must be 9. If *h* is less than 7, *h* must be 6. Since *o* is greater than *w*, *o* must be 10, and *w* must be 7.

|    | n | е | а | r |
|----|---|---|---|---|
| 12 |   | _ | + | — |
| 11 | + | _ | _ | _ |
| 4  | _ | + | _ | _ |
| 3  | _ | _ | _ | + |

Answers: n = 11; e = 4; a = 12; r = 3If *n* times *r* equals 33, *n* and *r* must be either 11 or 3 for the equation to be true. *e* is less than *n*, but greater than *r*, so *e* must be a middle number, either 4 or 11; therefore, *e* must be 4. *r* is less than *e*; therefore, *r* must be 3, and *n* must be 11. *a* is then 12.



Answers: s = 1; m = 8; k = 5; i = 2*i* is less than 3; therefore, *i* must be either 1 or 2, and since *i* is greater than *s*, and not 8, *i* must be 2, and *s* must be 1. If *k* plus *k* minus *i* equals *m*, *k* must be 5 and *m* must be 8 for equation to be true.





Answers: a = 12; t = 2; g = 4; e = 1If *a* times *a* equals *t* plus 142, *a* must be 12, and *t* must be 2 for the equation to be true. If *g* times *g*, times *e*, equals *g* times *g*, *e* must be 1. *g* is then 4.

|    | v | р | n | 0 |
|----|---|---|---|---|
| 11 | _ | + | Ι | Ι |
| 10 | _ | _ | - | + |
| 6  | + | _ | _ | _ |
| 5  | _ | _ | + | _ |

Answers: v = 6; p = 11; n = 5; o = 10If o times n times 10 equals 500, o and n must be either 5 or 10 for the equation to be true. If o is greater than n, o must be 10 and n must be 5. If n is less than p, p must be 6 or 11, the only numbers remaining that are greater than 5. If pis greater than o, p must be 11. v is then 6.

| - / | P |   |   |   |
|-----|---|---|---|---|
|     | Ι | i | h | r |
| 9   | - | - | + | _ |
| 8   |   | + | Ι | Ι |
| 7   | + | _ | _ | _ |
| 3   | _ | _ | _ | + |

Answers: I = 7; i = 8; h = 9; r = 3

If *i* is greater than *l* and *r*, but less than *h*, *i* must be 8. *h* is greater than *i*, so *h* must be 9, the largest number. *r* is less than *l*; therefore, *r* must be 3, and *l* must be 7.

Page 29: "Be the change you want tosee in the world."Mahatma Gandhi

|    | е | h | S | b |
|----|---|---|---|---|
| 10 | _ | _ | _ | + |
| 8  | + |   | _ | _ |
| 5  | _ | + | _ | _ |
| 2  | _ | _ | + | _ |

Answers: e = 8; h = 5; s = 2; b = 10If 10 percent of 100 equals b, b must be 10. Six percent of 300 equals e plus b; therefore, e must be 8 for the equation to be true. If eminus s plus 1 equals h, and s is greater than h, s must be 2, and h must be 5 for the equation to be true.

|    | С | 0 | u | t |
|----|---|---|---|---|
| 12 | Ι | Ι | Ι | + |
| 7  | + | - | _ | _ |
| 4  | - |   | + | — |
| 1  | _ | + | _ | _ |

Answers: c = 7; o = 1; u = 4; t = 12If 11 percent of 400 minus t equals 32, t must be 12 for the equation to be true. If t divided by o equals u times 3, o must be 1, and u must be 4 for the equation to be true. c is then 7.