3.19 Letters for Numbers: 10-minute Pack

GL ASSESSMENT GL-VR-11PLUS · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Each question gives a code in which letters stand for numbers, for example F=1, G=2, H=3, J=5, K=8. Work out the value of the calculation shown using these numbers, then choose the letter, A) to E), whose value matches your answer. Where a calculation has more than one step, use the order of operations: brackets first, then multiplication and division, then addition and subtraction. There is only one correct answer for each question.

Worked example. P=4, Q=7, R=2, S=9, T=5. Work out Q - R + P. Which letter has this value? **Answer: S.** Working left to right (only addition and subtraction are involved, so order does not change the result): Q - R + P = 7 - 2 + 4 = 9. Since S = 9, the letter S has this value, so S is correct.

1 F=3, G=8, H=2, J=7, K=4. Work out F + (G / H). Which letter has this value?

- ☐ A) G
- ☐ B) K
- ☐ C) H
- ☐ D) F
- ☐ E) J

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2 H=4, J=15, M=14, S=13, T=16.
Work out (S + J) - M. Which letter has this value?

- ☐ A) H
- ☐ B) M
- ☐ C) J
- ☐ D) T
- ☐ E) S

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3 B=23, F=14, H=9, L=19, W=2.
Work out B - H. Which letter has this value?

- [ ] A) W
- [ ] B) H
- [ ] C) F
- [ ] D) L
- [ ] E) B

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4 C=13, D=22, M=16, Q=17, W=21.
Work out D x (Q - M). Which letter has this value?

- [ ] A) W
- [ ] B) M
- [ ] C) D
- [ ] D) C
- [ ] E) Q

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5 D=19, G=16, H=5, J=10, S=21.
Work out S - H. Which letter has this value?

- [ ] A) S
- [ ] B) J
- [ ] C) H
- [ ] D) G
- [ ] E) D

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6 C=7, J=11, M=18, Q=14, Z=12.
Work out (Q + J) - M. Which letter has this value?

- [ ] A) J
- [ ] B) Q
- [ ] C) C
- [ ] D) M
- [ ] E) Z

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7 F=14, R=4, S=10, T=1, X=17.
Work out (R + F) - T. Which letter has this value?

- ☐ A) X
- ☐ B) S
- ☐ C) F
- ☐ D) T
- ☐ E) R

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8 Each letter stands for its place in the alphabet (A=1, B=2, C=3 and so on).
Work out I + A x E. Which letter has this value?

- ☐ A) O
- ☐ B) L
- ☐ C) N
- ☐ D) M
- ☐ E) P

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9 H=16, L=12, N=15, S=11, Z=2.
Work out (N + L) - S. Which letter has this value?

- ☐ A) N
- ☐ B) Z
- ☐ C) S
- ☐ D) L
- ☐ E) H

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10 D=11, F=10, N=2, Q=20, Z=18.
Work out N + Z. Which letter has this value?

- ☐ A) Z
- ☐ B) Q
- ☐ C) N
- ☐ D) F
- ☐ E) D

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11 J=4, K=24, P=12, T=1, W=2.
Work out T x J - W. Which letter has this value?

- ☐ A) W
- ☐ B) K
- ☐ C) J
- ☐ D) T
- ☐ E) P

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12 C=14, H=9, L=11, R=23, V=15.
Work out L x (V - C). Which letter has this value?

- ☐ A) V
- ☐ B) H
- ☐ C) C
- ☐ D) L
- ☐ E) R

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13 C=19, J=11, L=17, P=7, T=1.
Work out C x T. Which letter has this value?

- ☐ A) T
- ☐ B) C
- ☐ C) L
- ☐ D) J
- ☐ E) P

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Mark scheme · 3.19 Letters for Numbers: 10-minute Pack

Question 1

E) J - divide first: F + (G / H) = 3 + (8 / 2) = 3 + 4 = 7, and J = 7 (cao) **B1**

Answer: E) J

Question 2

B) M - (S + J) - M = 14, and M = 14 **B1**

Answer: B) M

Question 3

C) F - B - H = 14, and F = 14 **B1**

Answer: C) F

Question 4

C) D - D x (Q - M) = 22, and D = 22 **B1**

Answer: C) D

Question 5

D) G - S - H = 16, and G = 16 **B1**

Answer: D) G

Question 6

C) C - (Q + J) - M = 7, and C = 7 **B1**

Answer: C) C

Question 7

A) X - (R + F) - T = 17, and X = 17 **B1**

Answer: A) X

Question 8

C) N - I + A x E = 14, and the letter in place 14 is N **B1**

Answer: C) N

Question 9

E) H - (N + L) - S = 16, and H = 16 **B1**

Answer: E) H

Question 10

B) Q - N + Z = 20, and Q = 20 **B1**

Answer: B) Q

Question 11

A) W - T x J - W = 2, and W = 2 **B1**

Answer: A) W

Question 12

D) L - L x (V - C) = 11, and L = 11 **B1**

Answer: D) L

Question 13

B) C - C x T = 19, and C = 19 **B1**

Answer: B) C

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