3.19 Letters for Numbers: 30-minute Pack

GL ASSESSMENT GL-VR-11PLUS · about 30 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 Each letter stands for its place in the alphabet (A=1, B=2, C=3 and so on).
Work out J + B x A. Which letter has this value?

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

---

2 B=1, K=6, N=10, T=24, X=4.
Work out K + B x X. Which letter has this value?

- ☐ A) K
- ☐ B) N
- ☐ C) T
- ☐ D) B
- ☐ E) X

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3 G=21, K=2, N=15, R=17, V=16.
Work out K x V - N. Which letter has this value?

- ☐ A) V
- ☐ B) K
- ☐ C) G
- ☐ D) N
- ☐ E) R

---

4 B=24, F=1, K=5, N=15, X=21.
Work out (B + F) / K. Which letter has this value?

- ☐ A) F
- ☐ B) X
- ☐ C) K
- ☐ D) N
- ☐ E) B

---

5 F=2, G=3, H=20, J=14, K=54. Work out H - F x G. Which letter has this value?

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

---

6 D=11, F=13, H=21, J=3, X=10.
Work out X + J. Which letter has this value?

- ☐ A) J
- ☐ B) D
- ☐ C) X
- ☐ D) H
- ☐ E) F

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7 G=9, H=18, J=22, M=20, X=13.
Work out (H + X) - J. Which letter has this value?

- ☐ A) H
- ☐ B) G
- ☐ C) J
- ☐ D) X
- ☐ E) M

---

8 B=3, P=2, T=14, V=8, W=6.
Work out (P + T) / V. Which letter has this value?

- ☐ A) P
- ☐ B) T
- ☐ C) B
- ☐ D) W
- ☐ E) V

---

9 B=22, D=8, G=13, H=14, V=10.
Work out B - D. Which letter has this value?

- ☐ A) D
- ☐ B) V
- ☐ C) B
- ☐ D) H
- ☐ E) G

---

10 D=17, K=5, M=18, R=11, X=6.
Work out (K + D) - R. Which letter has this value?

- ☐ A) X
- ☐ B) K
- ☐ C) M
- ☐ D) R
- ☐ E) D

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11 F=22, G=12, R=17, S=19, V=2.
Work out R + V. Which letter has this value?

- [ ] A) F
- [ ] B) R
- [ ] C) V
- [ ] D) G
- [ ] E) S

---

12 B=23, F=7, Q=15, R=20, Z=4.
Work out (F + R) - B. Which letter has this value?

- [ ] A) B
- [ ] B) R
- [ ] C) Q
- [ ] D) F
- [ ] E) Z

---

13 D=20, J=7, L=4, N=22, Z=12.
Work out (L + D) - Z. Which letter has this value?

- [ ] A) L
- [ ] B) Z
- [ ] C) J
- [ ] D) D
- [ ] E) N

---

14 F=8, G=10, H=2, J=14, K=9. Work out G + (F / H). Which letter has this value?

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

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15 D=19, M=1, S=12, T=15, V=10.
Work out T x M. Which letter has this value?

- [ ] A) T
- [ ] B) S
- [ ] C) V
- [ ] D) D
- [ ] E) M

---

16 H=11, P=1, Q=14, W=21, Z=20.
Work out Q x (W - Z). Which letter has this value?

- [ ] A) H
- [ ] B) Z
- [ ] C) W
- [ ] D) Q
- [ ] E) P

---

17 B=8, P=17, R=1, S=2, W=9.
Work out B + R x W. Which letter has this value?

- [ ] A) S
- [ ] B) R
- [ ] C) W
- [ ] D) P
- [ ] E) B

---

18 C=23, J=24, K=4, T=6, X=10.
Work out K x T. Which letter has this value?

- [ ] A) C
- [ ] B) J
- [ ] C) K
- [ ] D) T
- [ ] E) X

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19 L=22, S=16, T=14, W=19, X=21.
Work out (T + X) - W. Which letter has this value?

- [ ] A) W
- [ ] B) L
- [ ] C) T
- [ ] D) X
- [ ] E) S

---

20 C=24, F=6, M=9, R=3, X=21.
Work out R + X. Which letter has this value?

- [ ] A) R
- [ ] B) X
- [ ] C) M
- [ ] D) C
- [ ] E) F

---

21 D=13, J=6, L=11, P=22, S=5.
Work out J + L + S. Which letter has this value?

- [ ] A) P
- [ ] B) D
- [ ] C) S
- [ ] D) L
- [ ] E) J

---

22 Each letter stands for its place in the alphabet (A=1, B=2, C=3 and so on).
Work out N x A - H. Which letter has this value?

- [ ] A) E
- [ ] B) U
- [ ] C) G
- [ ] D) F
- [ ] E) H

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23 F=14, G=23, H=9, J=46, K=37. Work out F + G + H. Which letter has this value?

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

---

24 B=2, D=11, G=1, L=3, X=5.
Work out X x G - B. Which letter has this value?

- [ ] A) X
- [ ] B) D
- [ ] C) B
- [ ] D) G
- [ ] E) L

---

25 C=17, F=1, R=15, T=24, X=4.
Work out C x F. Which letter has this value?

- [ ] A) F
- [ ] B) C
- [ ] C) R
- [ ] D) T
- [ ] E) X

---

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

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

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27 C=6, L=9, Q=20, R=21, V=1.
Work out R - V. Which letter has this value?

- [ ] A) C
- [ ] B) R
- [ ] C) V
- [ ] D) Q
- [ ] E) L

---

28 H=12, M=2, P=1, S=6, T=15.
Work out H + P + M. Which letter has this value?

- [ ] A) H
- [ ] B) T
- [ ] C) S
- [ ] D) M
- [ ] E) P

---

29 N=23, Q=1, V=8, X=9, Z=15.
Work out Z x Q + V. Which letter has this value?

- [ ] A) N
- [ ] B) V
- [ ] C) Z
- [ ] D) Q
- [ ] E) X

---

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

- [ ] A) T
- [ ] B) Q
- [ ] C) S
- [ ] D) I
- [ ] E) R

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31 B=24, H=10, L=5, M=17, X=4.
Work out L x X - H. Which letter has this value?

- [ ] A) M
- [ ] B) L
- [ ] C) X
- [ ] D) B
- [ ] E) H

---

32 D=14, L=7, T=15, V=2, X=20.
Work out D - L. Which letter has this value?

- [ ] A) T
- [ ] B) D
- [ ] C) L
- [ ] D) V
- [ ] E) X

---

33 D=2, F=17, P=11, W=18, Z=16.
Work out (W + Z) - F. Which letter has this value?

- [ ] A) F
- [ ] B) W
- [ ] C) Z
- [ ] D) D
- [ ] E) P

---

34 Each letter stands for its place in the alphabet (A=1, B=2, C=3 and so on).
Work out C x H - F. Which letter has this value?

- [ ] A) I
- [ ] B) T
- [ ] C) R
- [ ] D) Q
- [ ] E) S

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35 J=1, K=3, L=11, Q=8, S=23.
Work out K x J + Q. Which letter has this value?

- ☐ A) S
- ☐ B) Q
- ☐ C) K
- ☐ D) L
- ☐ E) J

---

36 C=2, F=7, M=5, N=20, Q=8.
Work out F - M. Which letter has this value?

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

---

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

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

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38 C=20, G=6, M=2, W=8, Z=7.
Work out M x Z - G. Which letter has this value?

- ☐ A) M
- ☐ B) C
- ☐ C) Z
- ☐ D) G
- ☐ E) W

---

39 B=9, D=3, N=2, Q=19, T=16.
Work out N x B - T. Which letter has this value?

- ☐ A) Q
- ☐ B) D
- ☐ C) B
- ☐ D) T
- ☐ E) N

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Mark scheme · 3.19 Letters for Numbers: 30-minute Pack

Question 1

E) L - J + B x A = 12, and the letter in place 12 is L **B1**

Answer: E) L

Question 2

B) N - K + B x X = 10, and N = 10 **B1**

Answer: B) N

Question 3

E) R - K x V - N = 17, and R = 17 **B1**

Answer: E) R

Question 4

C) K - (B + F) / K = 5, and K = 5 **B1**

Answer: C) K

Question 5

D) J - by BODMAS, multiply first: H - (F x G) = 20 - (2 x 3) = 20 - 6 = 14, and J = 14 (cao) **B1**

Answer: D) J

Question 6

E) F - X + J = 13, and F = 13 **B1**

Answer: E) F

Question 7

B) G - (H + X) - J = 9, and G = 9 **B1**

Answer: B) G

Question 8

A) P - (P + T) / V = 2, and P = 2 **B1**

Answer: A) P

Question 9

D) H - B - D = 14, and H = 14 **B1**

Answer: D) H

Question 10

D) R - (K + D) - R = 11, and R = 11 **B1**

Answer: D) R

Question 11

E) S - R + V = 19, and S = 19 **B1**

Answer: E) S

Question 12

E) Z - (F + R) - B = 4, and Z = 4 **B1**

Answer: E) Z

Question 13

B) Z - (L + D) - Z = 12, and Z = 12 **B1**

Answer: B) Z

Question 14

A) J - divide first: G + (F / H) = 10 + (8 / 2) = 10 + 4 = 14, and J = 14 (cao) **B1**

Answer: A) J

Question 15

A) T - T x M = 15, and T = 15 **B1**

Answer: A) T

Question 16

D) Q - Q x (W - Z) = 14, and Q = 14 **B1**

Answer: D) Q

Question 17

D) P - B + R x W = 17, and P = 17 **B1**

Answer: D) P

Question 18

B) J - K x T = 24, and J = 24 **B1**

Answer: B) J

Question 19

E) S - (T + X) - W = 16, and S = 16 **B1**

Answer: E) S

Question 20

D) C - R + X = 24, and C = 24 **B1**

Answer: D) C

Question 21

A) P - J + L + S = 22, and P = 22 **B1**

Answer: A) P

Question 22

D) F - N x A - H = 6, and the letter in place 6 is F **B1**

Answer: D) F

Question 23

B) J - F + G + H = 14 + 23 + 9 = 46, and J = 46 (cao) **B1**

Answer: B) J

Question 24

E) L - X x G - B = 3, and L = 3 **B1**

Answer: E) L

Question 25

B) C - C x F = 17, and C = 17 **B1**

Answer: B) C

Question 26

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

Answer: B) N

Question 27

D) Q - R - V = 20, and Q = 20 **B1**

Answer: D) Q

Question 28

B) T - H + P + M = 15, and T = 15 **B1**

Answer: B) T

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Question 29

A) N - Z x Q + V = 23, and N = 23 **B1**

Answer: A) N

Question 30

E) R - (A + B) x F = 18, and the letter in place 18 is R **B1**

Answer: E) R

Question 31

E) H - L x X - H = 10, and H = 10 **B1**

Answer: E) H

Question 32

C) L - D - L = 7, and L = 7 **B1**

Answer: C) L

Question 33

A) F - (W + Z) - F = 17, and F = 17 **B1**

Answer: A) F

Question 34

C) R - C x H - F = 18, and the letter in place 18 is R **B1**

Answer: C) R

Question 35

D) L - K x J + Q = 11, and L = 11 **B1**

Answer: D) L

Question 36

E) C - F - M = 2, and C = 2 **B1**

Answer: E) C

Question 37

A) O - (J + E) x A = 15, and the letter in place 15 is O **B1**

Answer: A) O

Question 38

E) W - M x Z - G = 8, and W = 8 **B1**

Answer: E) W

Question 39

E) N - N x B - T = 2, and N = 2 **B1**

Answer: E) N

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