2.89 Missing Digit and Calculation Puzzles: 1-hour Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The blank stands for one missing digit: 72_ - 424 = 297. What is the missing digit?

- ☐ A) 1
- ☐ B) 8
- ☐ C) 2
- ☐ D) 6
- ☐ E) 0

---

2 The blank stands for one missing digit: _13 + 418 = 731. What is the missing digit?

- ☐ A) 7
- ☐ B) 8
- ☐ C) 3
- ☐ D) 4
- ☐ E) 2

---

3 The blank stands for one missing digit: 954 x 4 = 381_. What is the missing digit?

- ☐ A) 1
- ☐ B) 7
- ☐ C) 6
- ☐ D) 5
- ☐ E) 3

---

4 The blank stands for one missing digit: 579 + 7_2 = 1311. What is the missing digit?

- ☐ A) 3
- ☐ B) 2
- ☐ C) 8
- ☐ D) 4
- ☐ E) 6

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5 In this subtraction the blank is a single digit. 89_ - 457 = 433. Which digit replaces the blank?

- ☐ A) 8
- ☐ B) 9
- ☐ C) 1
- ☐ D) 0
- ☐ E) 7

---

6 The blank stands for one missing digit: _29 - 404 = 325. What is the missing digit?

- ☐ A) 6
- ☐ B) 7
- ☐ C) 2
- ☐ D) 8
- ☐ E) 3

---

7 The blank stands for one missing digit: 424 - 114 = 31_. What is the missing digit?

- ☐ A) 0
- ☐ B) 5
- ☐ C) 9
- ☐ D) 1
- ☐ E) 4

---

8 The blank stands for one missing digit: _49 x 8 = 6792. What is the missing digit?

- ☐ A) 8
- ☐ B) 1
- ☐ C) 9
- ☐ D) 6
- ☐ E) 7

---

9 The blank stands for one missing digit: 582 - 2_5 = 377. What is the missing digit?

- ☐ A) 7
- ☐ B) 9
- ☐ C) 5
- ☐ D) 1
- ☐ E) 0

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10 The blank stands for one missing digit: 606 + 3_4 = 990. What is the missing digit?

- ☐ A) 1
- ☐ B) 8
- ☐ C) 7
- ☐ D) 9
- ☐ E) 3

---

11 The blank stands for one missing digit: 60_ x 4 = 2432. What is the missing digit?

- ☐ A) 7
- ☐ B) 1
- ☐ C) 8
- ☐ D) 3
- ☐ E) 9

---

12 The blank stands for one missing digit: 589 - 335 = _54. What is the missing digit?

- ☐ A) 3
- ☐ B) 7
- ☐ C) 5
- ☐ D) 2
- ☐ E) 1

---

13 The blank stands for one missing digit: 602 + 866 = 146_. What is the missing digit?

- ☐ A) 6
- ☐ B) 1
- ☐ C) 8
- ☐ D) 9
- ☐ E) 7

---

14 Find the missing digit: 65 x _ = 455

- ☐ A) 7
- ☐ B) 6
- ☐ C) 5
- ☐ D) 8
- ☐ E) 9

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15 The blank stands for one missing digit: 483 + 38_ = 863. What is the missing digit?

- [ ] A) 0
- [ ] B) 9
- [ ] C) 3
- [ ] D) 5
- [ ] E) 1

---

16 The blank stands for one missing digit: 306 x 5 = _530. What is the missing digit?

- [ ] A) 3
- [ ] B) 1
- [ ] C) 2
- [ ] D) 8
- [ ] E) 0

---

17 The blank stands for one missing digit: 452 x 6 = _712. What is the missing digit?

- [ ] A) 7
- [ ] B) 3
- [ ] C) 4
- [ ] D) 2
- [ ] E) 1

---

18 The blank stands for one missing digit: 71_ - 168 = 548. What is the missing digit?

- [ ] A) 7
- [ ] B) 5
- [ ] C) 1
- [ ] D) 8
- [ ] E) 6

---

19 The blank stands for one missing digit: 71_ - 193 = 525. What is the missing digit?

- [ ] A) 3
- [ ] B) 7
- [ ] C) 9
- [ ] D) 8
- [ ] E) 5

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20 The blank stands for one missing digit: 734 x 6 = _404. What is the missing digit?

- ☐ A) 7
- ☐ B) 4
- ☐ C) 9
- ☐ D) 3
- ☐ E) 5

---

21 The blank stands for one missing digit: 805 + 629 = _434. What is the missing digit?

- ☐ A) 6
- ☐ B) 8
- ☐ C) 0
- ☐ D) 2
- ☐ E) 1

---

22 The blank is a single digit: _8 ÷ 4 = 22. What is the blank?

- ☐ A) 2
- ☐ B) 4
- ☐ C) 7
- ☐ D) 6
- ☐ E) 8

---

23 The blank stands for one missing digit: 350 + _63 = 813. What is the missing digit?

- ☐ A) 8
- ☐ B) 3
- ☐ C) 4
- ☐ D) 5
- ☐ E) 9

---

24 The blank stands for one missing digit: 652 x 4 = _608. What is the missing digit?

- ☐ A) 7
- ☐ B) 2
- ☐ C) 1
- ☐ D) 3
- ☐ E) 6

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25 The blank stands for one missing digit: 67_ - 233 = 443. What is the missing digit?

- [ ] A) 6
- [ ] B) 3
- [ ] C) 5
- [ ] D) 7
- [ ] E) 1

---

26 The blank stands for one missing digit: 156 x 5 = 7_0. What is the missing digit?

- [ ] A) 3
- [ ] B) 9
- [ ] C) 7
- [ ] D) 8
- [ ] E) 1

---

27 The blank stands for one missing digit: _85 - 264 = 221. What is the missing digit?

- [ ] A) 4
- [ ] B) 5
- [ ] C) 3
- [ ] D) 9
- [ ] E) 2

---

28 The blank stands for one missing digit: 194 + 654 = 84_. What is the missing digit?

- [ ] A) 3
- [ ] B) 9
- [ ] C) 8
- [ ] D) 1
- [ ] E) 7

---

29 The blank stands for one missing digit: _76 - 199 = 377. What is the missing digit?

- [ ] A) 6
- [ ] B) 5
- [ ] C) 3
- [ ] D) 4
- [ ] E) 0

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30 The blank stands for one missing digit: 769 x 8 = 6_52. What is the missing digit?

- [ ] A) 7
- [ ] B) 0
- [ ] C) 6
- [ ] D) 2
- [ ] E) 1

---

31 The blank stands for one missing digit: 888 - 537 = 3_1. What is the missing digit?

- [ ] A) 6
- [ ] B) 5
- [ ] C) 0
- [ ] D) 8
- [ ] E) 4

---

32 In the addition below the blank is a single digit. 3_8 + 267 = 615. Find the blank.

- [ ] A) 3
- [ ] B) 1
- [ ] C) 5
- [ ] D) 2
- [ ] E) 4

---

33 The blank stands for one missing digit: 694 - _15 = 179. What is the missing digit?

- [ ] A) 1
- [ ] B) 0
- [ ] C) 5
- [ ] D) 6
- [ ] E) 4

---

34 The blank stands for one missing digit: 4_5 - 362 = 93. What is the missing digit?

- [ ] A) 5
- [ ] B) 6
- [ ] C) 0
- [ ] D) 4
- [ ] E) 3

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35 The blank stands for one missing digit: 561 - 187 = 3_4. What is the missing digit?

- [ ] A) 5
- [ ] B) 8
- [ ] C) 2
- [ ] D) 6
- [ ] E) 7

---

36 The blank stands for one missing digit: 526 + 833 = 1_59. What is the missing digit?

- [ ] A) 2
- [ ] B) 8
- [ ] C) 5
- [ ] D) 3
- [ ] E) 4

---

37 The blank stands for one missing digit: 288 x 9 = 25_2. What is the missing digit?

- [ ] A) 9
- [ ] B) 2
- [ ] C) 8
- [ ] D) 0
- [ ] E) 4

---

38 The blank stands for one missing digit: 75_ - 193 = 558. What is the missing digit?

- [ ] A) 8
- [ ] B) 1
- [ ] C) 0
- [ ] D) 6
- [ ] E) 2

---

39 The blank stands for one missing digit: 435 + 60_ = 1036. What is the missing digit?

- [ ] A) 6
- [ ] B) 8
- [ ] C) 1
- [ ] D) 0
- [ ] E) 2

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40 The blank stands for one missing digit: 498 x 5 = _490. What is the missing digit?

- [ ] A) 1
- [ ] B) 4
- [ ] C) 7
- [ ] D) 3
- [ ] E) 2

---

41 The blank stands for one missing digit: 5_2 x 6 = 3192. What is the missing digit?

- [ ] A) 2
- [ ] B) 6
- [ ] C) 3
- [ ] D) 8
- [ ] E) 4

---

42 The blank stands for one missing digit: 795 - _08 = 187. What is the missing digit?

- [ ] A) 3
- [ ] B) 1
- [ ] C) 7
- [ ] D) 5
- [ ] E) 6

---

43 The blank stands for one missing digit: 838 - _10 = 128. What is the missing digit?

- [ ] A) 8
- [ ] B) 1
- [ ] C) 6
- [ ] D) 7
- [ ] E) 2

---

44 The blank stands for one missing digit: 827 x 9 = 74_3. What is the missing digit?

- [ ] A) 4
- [ ] B) 8
- [ ] C) 3
- [ ] D) 5
- [ ] E) 9

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45 The blank stands for one missing digit: 853 + 266 = 11_9. What is the missing digit?

- [ ] A) 1
- [ ] B) 8
- [ ] C) 2
- [ ] D) 0
- [ ] E) 6

---

46 The blank stands for one missing digit: 764 + _30 = 894. What is the missing digit?

- [ ] A) 8
- [ ] B) 6
- [ ] C) 0
- [ ] D) 1
- [ ] E) 2

---

47 The blank stands for one missing digit: 709 + 5_4 = 1253. What is the missing digit?

- [ ] A) 2
- [ ] B) 4
- [ ] C) 3
- [ ] D) 5
- [ ] E) 9

---

48 The blank stands for one missing digit: 8_4 - 796 = 88. What is the missing digit?

- [ ] A) 1
- [ ] B) 7
- [ ] C) 9
- [ ] D) 3
- [ ] E) 8

---

49 The blank stands for one missing digit: _65 x 8 = 1320. What is the missing digit?

- [ ] A) 0
- [ ] B) 6
- [ ] C) 2
- [ ] D) 1
- [ ] E) 8

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50 Each symbol # stands for the same single digit. #7 + 35 = 102. What digit does # represent?

- [ ] A) 6
- [ ] B) 7
- [ ] C) 5
- [ ] D) 4
- [ ] E) 3

---

51 The blank stands for one missing digit: 2_4 x 3 = 642. What is the missing digit?

- [ ] A) 1
- [ ] B) 4
- [ ] C) 0
- [ ] D) 8
- [ ] E) 2

---

52 The blank stands for one missing digit: 998 x 8 = 79_4. What is the missing digit?

- [ ] A) 3
- [ ] B) 8
- [ ] C) 9
- [ ] D) 1
- [ ] E) 7

---

53 The blank stands for one missing digit: 585 - 323 = _62. What is the missing digit?

- [ ] A) 5
- [ ] B) 7
- [ ] C) 2
- [ ] D) 1
- [ ] E) 3

---

54 The blank stands for one missing digit: 439 - 256 = 18_. What is the missing digit?

- [ ] A) 6
- [ ] B) 8
- [ ] C) 2
- [ ] D) 4
- [ ] E) 3

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55 The blank stands for one missing digit: 194 x 9 = 174_. What is the missing digit?

- [ ] A) 1
- [ ] B) 7
- [ ] C) 6
- [ ] D) 3
- [ ] E) 5

---

56 The blank stands for one missing digit: _58 - 193 = 465. What is the missing digit?

- [ ] A) 4
- [ ] B) 7
- [ ] C) 5
- [ ] D) 3
- [ ] E) 6

---

57 The blank stands for one missing digit: 358 + 5_6 = 904. What is the missing digit?

- [ ] A) 4
- [ ] B) 9
- [ ] C) 3
- [ ] D) 5
- [ ] E) 0

---

58 The blank stands for one missing digit: 16_ + 276 = 440. What is the missing digit?

- [ ] A) 3
- [ ] B) 5
- [ ] C) 0
- [ ] D) 4
- [ ] E) 9

---

59 The blank stands for one missing digit: 433 + 2_3 = 696. What is the missing digit?

- [ ] A) 5
- [ ] B) 9
- [ ] C) 7
- [ ] D) 6
- [ ] E) 1

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60 Each symbol # stands for the same single digit. #5 + 48 = 123. What digit does # represent?

- ☐ A) 5
- ☐ B) 4
- ☐ C) 6
- ☐ D) 7
- ☐ E) 8

---

61 The blank stands for one missing digit: 662 + 773 = 14_5. What is the missing digit?

- ☐ A) 6
- ☐ B) 4
- ☐ C) 2
- ☐ D) 8
- ☐ E) 3

---

62 Find the missing digit in the subtraction 9_5 - 218 = 777. Show your working.

(3)

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Mark scheme · 2.89 Missing Digit and Calculation Puzzles: 1-hour Pack

Question 1

correct option A (1) cao **B1**

Answer: A) 1

Question 2

correct option C (3) cao **B1**

Answer: C) 3

Question 3

correct option C (6) cao **B1**

Answer: C) 6

Question 4

correct option A (3) cao **B1**

Answer: A) 3

Question 5

correct option D (0) cao **B1**

Answer: D) 0

Question 6

correct option B (7) cao **B1**

Answer: B) 7

Question 7

correct option A (0) cao **B1**

Answer: A) 0

Question 8

correct option A (8) cao **B1**

Answer: A) 8

Question 9

correct option E (0) cao **B1**

Answer: E) 0

Question 10

correct option B (8) cao **B1**

Answer: B) 8

Question 11

correct option C (8) cao **B1**

Answer: C) 8

Question 12

correct option D (2) cao **B1**

Answer: D) 2

Question 13

correct option C (8) cao **B1**

Answer: C) 8

Question 14

correct option A (7) cao **B1**

Answer: A) 7

Question 15

correct option A (0) cao **B1**

Answer: A) 0

Question 16

correct option B (1) cao **B1**

Answer: B) 1

Question 17

correct option D (2) cao **B1**

Answer: D) 2

Question 18

correct option E (6) cao **B1**

Answer: E) 6

Question 19

correct option D (8) cao **B1**

Answer: D) 8

Question 20

correct option B (4) cao **B1**

Answer: B) 4

Question 21

correct option E (1) cao **B1**

Answer: E) 1

Question 22

correct option E (8) cao **B1**

Answer: E) 8

Question 23

correct option C (4) cao **B1**

Answer: C) 4

Question 24

correct option B (2) cao **B1**

Answer: B) 2

Question 25

correct option A (6) cao **B1**

Answer: A) 6

Question 26

correct option D (8) cao **B1**

Answer: D) 8

Question 27

correct option A (4) cao **B1**

Answer: A) 4

Question 28

correct option C (8) cao **B1**

Answer: C) 8

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Question 29

correct option B (5) cao **B1**

Answer: B) 5

Question 30

correct option E (1) cao **B1**

Answer: E) 1

Question 31

correct option B (5) cao **B1**

Answer: B) 5

Question 32

correct option E (4) cao **B1**

Answer: E) 4

Question 33

correct option C (5) cao **B1**

Answer: C) 5

Question 34

correct option A (5) cao **B1**

Answer: A) 5

Question 35

correct option E (7) cao **B1**

Answer: E) 7

Question 36

correct option D (3) cao **B1**

Answer: D) 3

Question 37

correct option A (9) cao **B1**

Answer: A) 9

Question 38

correct option B (1) cao **B1**

Answer: B) 1

Question 39

correct option C (1) cao **B1**

Answer: C) 1

Question 40

correct option E (2) cao **B1**

Answer: E) 2

Question 41

correct option C (3) cao **B1**

Answer: C) 3

Question 42

correct option E (6) cao **B1**

Answer: E) 6

Question 43

correct option D (7) cao **B1**

Answer: D) 7

Question 44

correct option A (4) cao **B1**

Answer: A) 4

Question 45

correct option A (1) cao **B1**

Answer: A) 1

Question 46

correct option D (1) cao **B1**

Answer: D) 1

Question 47

correct option B (4) cao **B1**

Answer: B) 4

Question 48

correct option E (8) cao **B1**

Answer: E) 8

Question 49

correct option D (1) cao **B1**

Answer: D) 1

Question 50

correct option A (6) cao **B1**

Answer: A) 6

Question 51

correct option A (1) cao **B1**

Answer: A) 1

Question 52

correct option B (8) cao **B1**

Answer: B) 8

Question 53

correct option C (2) cao **B1**

Answer: C) 2

Question 54

correct option E (3) cao **B1**

Answer: E) 3

Question 55

correct option C (6) cao **B1**

Answer: C) 6

Question 56

correct option E (6) cao **B1**

Answer: E) 6

Question 57

correct option A (4) cao **B1**

Answer: A) 4

Question 58

correct option D (4) cao **B1**

Answer: D) 4

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Question 59

correct option D (6) cao **B1**

Answer: D) 6

Question 60

correct option D (7) cao **B1**

Answer: D) 7

Question 61

correct option E (3) cao **B1**

Answer: E) 3

Question 62

add 218 + 777 (= 995) or equivalent method seen **M1**

write result 995 or show hundreds, tens and units correctly **M1**

missing digit 9 cao **A1**

Answer: 9 (because 995 - 218 = 777).

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