2.89 Missing Digit and Calculation Puzzles: 30-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The blank stands for one missing digit: _52 + 271 = 1023. What is the missing digit?

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

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2 The blank stands for one missing digit: 52_ + 480 = 1002. What is the missing digit?

- ☐ A) 3
- ☐ B) 0
- ☐ C) 1
- ☐ D) 2
- ☐ E) 7

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3 The blank stands for one missing digit: 540 - 434 = 10_. What is the missing digit?

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

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4 The blank stands for one missing digit: 239 + _85 = 424. What is the missing digit?

- [ ] A) 1
- [ ] B) 4
- [ ] C) 2
- [ ] D) 6
- [ ] E) 0

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5 The blank stands for one missing digit: _56 x 4 = 2224. What is the missing digit?

- [ ] A) 6
- [ ] B) 5
- [ ] C) 4
- [ ] D) 0
- [ ] E) 2

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6 The blank stands for one missing digit: 844 - 205 = 6_9. What is the missing digit?

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

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7 The blank stands for one missing digit: 429 + 3_3 = 792. What is the missing digit?

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

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8 The blank stands for one missing digit: 705 + 874 = _579. What is the missing digit?

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

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9 The blank stands for one missing digit: 81_ x 4 = 3248. What is the missing digit?

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

---

10 The blank stands for one missing digit: 296 x 6 = 177_. What is the missing digit?

- ☐ A) 3
- ☐ B) 5
- ☐ C) 2
- ☐ D) 7
- ☐ E) 6

---

11 The blank stands for one missing digit: 84_ - 596 = 244. What is the missing digit?

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

---

12 The blank stands for one missing digit: _75 - 325 = 150. What is the missing digit?

- ☐ A) 4
- ☐ B) 5
- ☐ C) 9
- ☐ D) 1
- ☐ E) 3

---

13 The blank stands for one missing digit: 2_7 x 9 = 2043. What is the missing digit?

- ☐ A) 0
- ☐ B) 7
- ☐ C) 3
- ☐ D) 2
- ☐ E) 1

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14 The blank stands for one missing digit: 580 x 4 = 2_20. What is the missing digit?

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

---

15 The blank stands for one missing digit: 174 x 4 = _96. What is the missing digit?

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

---

16 The blank stands for one missing digit: 397 + 531 = _28. What is the missing digit?

- [ ] A) 0
- [ ] B) 9
- [ ] C) 8
- [ ] D) 4
- [ ] E) 3

---

17 The blank stands for one missing digit: 94_ x 6 = 5658. What is the missing digit?

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

---

18 The blank stands for one missing digit: 8_6 x 8 = 6848. What is the missing digit?

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

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19 The blank stands for one missing digit: 3_5 x 9 = 3105. What is the missing digit?

- [ ] A) 1
- [ ] B) 4
- [ ] C) 9
- [ ] D) 5
- [ ] E) 3

---

20 The blank stands for one missing digit: _64 - 461 = 303. What is the missing digit?

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

---

21 The blank stands for one missing digit: 656 - 114 = 5_2. What is the missing digit?

- [ ] A) 4
- [ ] B) 9
- [ ] C) 6
- [ ] D) 5
- [ ] E) 3

---

22 The blank stands for one missing digit: _99 - 200 = 499. What is the missing digit?

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

---

23 The blank stands for one missing digit: 422 + 774 = 1_96. What is the missing digit?

- [ ] A) 6
- [ ] B) 1
- [ ] C) 4
- [ ] D) 2
- [ ] E) 0

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24 The blank stands for one missing digit: 397 + 178 = 5_5. What is the missing digit?

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

---

25 The blank stands for one missing digit: 394 x 9 = 3_46. What is the missing digit?

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

---

26 The blank stands for one missing digit: _31 x 3 = 1593. What is the missing digit?

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

---

27 The blank stands for one missing digit: 36_ + 398 = 764. What is the missing digit?

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

---

28 The blank stands for one missing digit: _49 x 6 = 894. What is the missing digit?

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

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29 The blank stands for one missing digit: _95 + 678 = 873. What is the missing digit?

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

---

30 The blank stands for one missing digit: _48 x 5 = 740. What is the missing digit?

- ☐ A) 0
- ☐ B) 8
- ☐ C) 7
- ☐ D) 2
- ☐ E) 1

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31 A three-digit number written as _52 minus 379 equals 173. Find the missing digit and show your working.

(2)

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Mark scheme · 2.89 Missing Digit and Calculation Puzzles: 30-minute Pack

Question 1

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

Answer: E) 7

Question 2

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

Answer: D) 2

Question 3

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

Answer: B) 6

Question 4

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

Answer: A) 1

Question 5

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

Answer: B) 5

Question 6

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

Answer: E) 3

Question 7

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

Answer: A) 6

Question 8

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

Answer: D) 1

Question 9

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

Answer: B) 2

Question 10

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

Answer: E) 6

Question 11

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

Answer: C) 0

Question 12

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

Answer: A) 4

Question 13

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

Answer: D) 2

Question 14

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

Answer: C) 3

Question 15

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

Answer: E) 6

Question 16

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

Answer: B) 9

Question 17

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

Answer: C) 3

Question 18

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

Answer: E) 5

Question 19

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

Answer: B) 4

Question 20

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

Answer: D) 7

Question 21

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

Answer: A) 4

Question 22

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

Answer: D) 6

Question 23

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

Answer: B) 1

Question 24

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

Answer: D) 7

Question 25

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

Answer: B) 5

Question 26

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

Answer: C) 5

Question 27

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

Answer: E) 6

Question 28

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

Answer: A) 1

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Question 29

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

Answer: B) 1

Question 30

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

Answer: E) 1

Question 31

add 379 + 173 (= 552) or equivalent method seen	**M1**
hundreds digit 5 (552) cao	**A1**

Answer: 5 (the number is 552).

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