2.89 Missing Digit and Calculation Puzzles: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 In the addition below the blank stands for one digit. 4_6 + 289 = 715. What is the missing digit?

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

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2 The blank stands for one missing digit: 369 x 5 = 184_. What is the missing digit?

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

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3 The blank stands for one missing digit: 637 + 750 = 13_7. What is the missing digit?

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

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4 The blank stands for one missing digit: 783 x 3 = 23_9. What is the missing digit?

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

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5 The blank stands for one missing digit: 6_2 + 519 = 1181. What is the missing digit?

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

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6 The blank stands for one missing digit: 287 + _58 = 445. What is the missing digit?

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

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7 The blank stands for one missing digit: 847 x 4 = 338_. What is the missing digit?

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

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8 The blank stands for one missing digit: _89 + 580 = 769. What is the missing digit?

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

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9 The blank stands for one missing digit: 510 + 428 = 9_8. What is the missing digit?

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

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10 In the multiplication below a blank stands for a digit. 2_3 x 4 = 892. Find the missing digit and show the method.

(2)

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Mark scheme · 2.89 Missing Digit and Calculation Puzzles: 10-minute Pack

Question 1

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

Answer: B) 2 (because 426 + 289 = 715).

Question 2

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

Answer: E) 5

Question 3

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

Answer: D) 8

Question 4

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

Answer: B) 4

Question 5

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

Answer: C) 6

Question 6

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

Answer: D) 1

Question 7

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

Answer: A) 8

Question 8

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

Answer: B) 1

Question 9

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

Answer: C) 3

Question 10

division or equivalent method: 892 ÷ 4 (= 223) seen **M1**

missing digit 2 in 2_3 (223) cao **A1**

Answer: Missing digit = 2 (223 x 4 = 892).

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