Year 3 maths: Missing digits in sums (Medium)

Maths · Number
Level: Medium

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. 7□8 − 325 = 453. What digit goes in the box?

Answer: ☐

	H	T	O
	7	□	8
−	3	2	5
	4	5	3

Working:

2. 81 − □5 = 46. What digit goes in the box?

Answer: ☐

	T	O
	8	1
−	□	5
	4	6

Working:

3. 38 + □6 = 84. What digit goes in the box?

Circle one answer.

	T	O
	3	8
+	□	6
	8	4

○ **A** 1 ○ **B** 5 ○ **C** 4 ○ **D** 6

4. 9□ − 47 = 45. What digit goes in the box?

Circle one answer.

	T	O
	9	□
−	4	7
	4	5

○ **A** 8 ○ **B** 2 ○ **C** 7 ○ **D** 5

5. 4□7 + 132 = 589. What digit goes in the box?

Answer: ☐

	H	T	O
	4	□	7
+	1	3	2
	5	8	9

Working:

6. 562 − 1□7 = 425. What digit goes in the box?

Answer: ☐

	H	T	O
	5	6	2
−	1	□	7
	4	2	5

Working:

7. 64 + 25 + 1□ = 108. What digit goes in the box?

Answer:

H	T	O	
		6	4
		2	5
+		1	?
=	1	0	8

Working:

8. ▲ − 46 = 29. What number is ▲?

Circle one answer.

○ **A** 29 ○ **B** 17 ○ **C** 75 ○ **D** 65

9. Q and R stand for digits: Q3 + 46 + 2R = 127. What digit is Q?

Circle one answer.

H	T	O	
		Q	3
		4	6
+		2	R
=	1	2	7

○ **A** 7 ○ **B** 6 ○ **C** 3 ○ **D** 5

10. 26 + 3□ + 18 = 83. What digit goes in the box?

Answer:

T	O	
	2	6
	3	?
+	1	8
=	8	3

Working:

Answer key

Year 3 maths: Missing digits in sums (Medium) · Sheet 277415

1. 7

Tens column: □ − 2 = 5. Add back: 5 + 2 = 7, so □ = 7. Check: 778 − 325 = 453.

2. 3

Use the opposite: 81 − 46 = 35, so □ = 3. Check: 81 − 35 = 46.

3. C — 4

Use the opposite: 84 − 38 = 46, so □ = 4. Check: 38 + 46 = 84 (8 + 6 = 14, carry 1; 3 + 4 + 1 = 8).

4. B — 2

Add back: 45 + 47 = 92, so □ = 2. Check: 92 − 47 = 45.

5. 5

Tens column: □ + 3 = 8, so □ = 5. Check: 457 + 132 = 589.

6. 3

Use the opposite: 562 − 425 = 137, so □ = 3. Check: 562 − 137 = 425.

7. 9

Add the two numbers you know: 64 + 25 = 89. 108 − 89 = 19, so the box is 9. Check: 64 + 25 + 19 = 108.

8. C — 75

▲ is the starting number, so add back: 29 + 46 = 75. Check: 75 − 46 = 29.

9. D — 5

Ones: 3 + 6 + R ends in 7, so R = 8 (17, carry 1). Tens: Q + 4 + 2 + 1 = 12, so Q = 5. Check: 53 + 46 + 28 = 127.

10. 9

Add the two numbers you know: 26 + 18 = 44. 83 − 44 = 39, so the box is 9. Check: 26 + 39 + 18 = 83.