

# CoEA Module 1

# Mental Tests

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## Test 1.1 (*no calculator*)

1. Write in words 29. (twenty nine)
2. Write the following numbers in order, largest first: 82, 27, 31, 45 (82, 45, 31, 27)
3. Which is the smallest number in the set {33, 51, 49, 26} ? (26)
4. Which is the next number in this sequence: 10, 20, 30 ? (40)
5. Write in words 182. (one hundred and eighty two)
6. What is the value of the 7 in 729? (seven hundred)
7. What is the next number in the sequence: 100, 120, 140 ? (160)
8. Write in words 797. (seven hundred and ninety seven)
9. What is the value of the 4 in 945? (four tens *or* forty)
10. What is the smallest number in the set {192, 247, 500, 169} ? (169)

## Test 1.2 (*no calculator*)

1. Write in words 43. (forty three)
2. Write the following numbers in order, largest first: 25, 91, 50, 36 (91, 50, 36, 25)
3. Which is the smallest number in the set {73, 84, 71, 69} ? (69)
4. Which is the next number in this sequence: 25, 35, 45 ? (55)
5. Write in words 452. (four hundred and fifty two)
6. What is the value of the 8 in 820? (eight hundred)
7. What is the next number in the sequence: 50, 100, 150 ? (200)
8. Write in words 902. (nine hundred and two)
9. What is the value of the 5 in 759? (five tens *or* fifty)
10. What is the largest number in the set {199, 320, 290, 187} ? (320)

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**Test 1.3** (*no calculator*)

1.  $10 + 5$  (15)
2.  $12 - 3$  (9)
3.  $8 + 4$  (12)
4.  $15 - 2$  (13)
5.  $12 + 4$  (16)
6.  $14 - 5$  (9)
7.  $5 + 6 + 7$  (18)
8.  $16 - 6$  (10)
9.  $2 + 4 + 8$  (14)
10.  $24 - 8$  (16)

**Test 1.4** (*no calculator*)

1.  $12 + 3$  (15)
2.  $10 - 6$  (4)
3.  $9 + 5$  (14)
4.  $15 - 6$  (9)
5.  $13 + 6$  (19)
6.  $20 - 7$  (13)
7.  $7 + 8 + 9$  (24)
8.  $24 - 4$  (20)
9.  $1 + 3 + 9$  (13)
10.  $26 - 8$  (18)

**Test 1.5** (*no calculator*)

1. Add 9 and 4. (13)
2. What is 8 plus 7? (15)
3. Take 7 from 14. (7)
4. Add 10 to 6. (16)
5. What is the sum of 1, 2, 3 and 4? (10)
6. Subtract 5 from 13. (8)
7. Add 7, 6 and 5. (18)
8. What is 4 times 4? (16)
9. What is the difference between 6 and 14? (8)
10. Subtract 12 from 20. (8)

**Test 1.6** (*no calculator*)

1. Add 5 and 7. (12)
2. What is 3 plus 9? (12)
3. Take 8 from 15. (7)
4. Add 12 to 7. (19)
5. What is the sum of 4, 6 and 8? (18)
6. Subtract 4 from 16. (12)
7. Add 5, 7 and 9. (21)
8. What is 5 times 3? (15)
9. What is the difference between 12 and 7? (5)
10. Subtract 13 from 17. (4)

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**Test 1.7** (*no calculator*)

1.	$2 \times 2$	(4)
2.	$4 \times 5$	(20)
3.	$2 \times 6$	(12)
4.	$6 \times 5$	(30)
5.	$2 \times 10$	(20)
6.	$3 \times 4$	(12)
7.	$8 \times 5$	(40)
8.	$5 \times 10$	(50)
9.	$2 \times 8$	(16)
10.	$6 \times 10$	(60)

**Test 1.8** (*no calculator*)

1.	$2 \times 5$	(10)
2.	$3 \times 2$	(6)
3.	$2 \times 7$	(14)
4.	$5 \times 8$	(40)
5.	$4 \times 4$	(16)
6.	$10 \times 5$	(50)
7.	$5 \times 4$	(20)
8.	$8 \times 2$	(16)
9.	$5 \times 6$	(30)
10.	$2 \times 9$	(18)

**Test 1.9** (*no calculator*)

1.	$10 \times 2$	(20)
2.	$4 \times 2$	(8)
3.	$7 \times 5$	(35)
4.	$5 \times 5$	(25)
5.	$2 \times 3$	(6)
6.	$5 \times 9$	(45)
7.	$7 \times 10$	(70)
8.	$5 \times 3$	(15)
9.	$10 \times 9$	(90)
10.	$7 \times 2$	(14)

**Test 1.10** (*no calculator*)

1.	$9 \times 5$	(45)
2.	$5 \times 2$	(10)
3.	$5 \times 7$	(35)
4.	$2 \times 4$	(8)
5.	$10 \times 8$	(80)
6.	$4 \times 3$	(12)
7.	$6 \times 2$	(12)
8.	$9 \times 10$	(90)
9.	$9 \times 2$	(18)
10.	$10 \times 10$	(100)

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**Test 1.11** (*no calculator*)

1.  $20 \div 2$  (10)
2.  $50 \div 5$  (10)
3.  $8 \div 2$  (4)
4.  $12 \div 4$  (3)
5.  $16 \div 2$  (8)
6.  $90 \div 10$  (9)
7.  $15 \div 3$  (3)
8.  $12 \div 2$  (6)
9.  $16 \div 4$  (4)
10.  $4 \div 2$  (2)

**Test 1.12** (*no calculator*)

2.  $10 \div 2$  (5)
2.  $20 \div 5$  (4)
3.  $8 \div 4$  (2)
4.  $18 \div 2$  (9)
5.  $70 \div 10$  (7)
6.  $25 \div 5$  (5)
7.  $14 \div 2$  (7)
8.  $40 \div 5$  (8)
9.  $6 \div 2$  (3)
10.  $9 \div 3$  (3)

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## Test 4.1 (no calculator)

Write down the next number in each of the following sequences.

1. 2, 4, 6, 8, ? (10)
2. 3, 5, 7, 9, ? (11)
3. 3, 6, 9, 12, ? (15)
4. 20, 18, 16, 14, ? (12)
5. 15, 12, 9, 6, ? (3)

What is the missing number in each of the following sets of numbers?

6. 1, 3, 5, ?, 9 (7)
7. 2, 4, ?, 8, 10 (6)
8. 10, 9, 8, ?, 6 (7)
9. 19, 17, ?, 13, 11 (15)
10. 5, 10, ?, 20, 25 (15)

## Test 4.2 (no calculator)

Write down the next number in each of the following sequences.

1. 1, 3, 5, 7, ? (9)
2. 4, 6, 8, 10, ? (12)
3. 4, 8, 12, 16, ? (20)
4. 25, 20, 15, 10, ? (5)
5. 18, 15, 12, 9, ? (6)

What is the missing number in each of the following sets of numbers?

6. 2, 4, 6, ?, 10 (8)
7. 20, 19, 18, ?, 16 (17)
8. 10, 20, ?, 40, 50 (30)
9. 21, 18, 15, ?, 9 (12)
10. 5, ?, 15, 20, 25 (10)