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the exciting way to master mental maths!

Purple Phase Overview

Purple Phase will develop addition and subtraction fluency in:

• Using zero	7 + 0 = 7	7 – 0 = 7
• Single digits within 10	6 + 2 = 8	8 – 6 = 2
• Number bonds to 10	1 + 9 = 10	10 – 1 = 9
• Multiples of 10 to a single digit	40 + 7 = 47	47 – 7 = 40
• Doubles within 20	6 + 6 = 12	12 – 6 = 6
• Near doubles within 20	8 + 9 = 17	17 – 9 = 8
• Single digits to bridge 10 within 20	9 + 6 = 15	15 – 6 = 9

Ask 1 + 9 and 9 + 1 =

Ask 10 - 9 =

Ask 10 - 1 =

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Beat Your Best

Purple Phase Addition

(Allow 5 mins max.)

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1 + 1 =	4 + 10 =	7 + 9 =	5 + 4 =
3 + 4 =	2 + 1 =	3 + 2 =	9 + 60 =
7 + 5 =	1 + 6 =	10 + 5 =	10 + 2 =
6 + 10 =	3 + 0 =	5 + 8 =	6 + 3 =
2 + 6 =	8 + 9 =	3 + 9 =	10 + 8 =
9 + 3 =	1 + 3 =	10 + 4 =	2 + 2 =
8 + 4 =	6 + 6 =	8 + 3 =	4 + 7 =
1 + 2 =	7 + 4 =	7 + 10 =	2 + 5 =
9 + 7 =	3 + 5 =	4 + 1 =	8 + 6 =
6 + 5 =	9 + 10 =	5 + 90 =	9 + 2 =
4 + 4 =	3 + 8 =	4 + 6 =	20 + 4 =
3 + 7 =	5 + 5 =	10 + 1 =	10 + 9 =
8 + 10 =	8 + 8 =	7 + 3 =	7 + 2 =
2 + 3 =	9 + 1 =	6 + 2 =	1 + 8 =
6 + 4 =	5 + 10 =	5 + 7 =	6 + 8 =
1 + 70 =	8 + 7 =	2 + 8 =	2 + 10 =
9 + 8 =	1 + 9 =	0 + 6 =	4 + 5 =
3 + 1 =	3 + 3 =	4 + 9 =	8 + 2 =
10 + 3 =	5 + 2 =	1 + 4 =	6 + 9 =
8 + 5 =	10 + 6 =	6 + 7 =	0 + 10 =
4 + 0 =	4 + 8 =	4 + 3 =	5 + 3 =
10 + 7 =	5 + 1 =	7 + 1 =	8 + 1 =
9 + 4 =	20 + 9 =	9 + 9 =	7 + 7 =
2 + 7 =	6 + 1 =	1 + 5 =	9 + 5 =
7 + 6 =	7 + 8 =	5 + 6 =	1 + 7 =

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Beat Your Best

Purple Phase Addition

(ANSWERS)

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1 + 1 = 2	4 + 10 = 14	7 + 9 = 16	5 + 4 = 9
3 + 4 = 7	2 + 1 = 3	3 + 2 = 5	9 + 60 = 69
7 + 5 = 12	1 + 6 = 7	10 + 5 = 15	10 + 2 = 12
6 + 10 = 16	3 + 0 = 3	5 + 8 = 13	6 + 3 = 9
2 + 6 = 8	8 + 9 = 17	3 + 9 = 12	10 + 8 = 18
9 + 3 = 12	1 + 3 = 4	10 + 4 = 14	2 + 2 = 4
8 + 4 = 12	6 + 6 = 12	8 + 3 = 11	4 + 7 = 11
1 + 2 = 3	7 + 4 = 11	7 + 10 = 17	2 + 5 = 7
9 + 7 = 16	3 + 5 = 8	4 + 1 = 5	8 + 6 = 14
6 + 5 = 11	9 + 10 = 19	5 + 90 = 95	9 + 2 = 11
4 + 4 = 8	3 + 8 = 11	4 + 6 = 10	20 + 4 = 24
3 + 7 = 10	5 + 5 = 10	10 + 1 = 11	10 + 9 = 19
8 + 10 = 18	8 + 8 = 16	7 + 3 = 10	7 + 2 = 9
2 + 3 = 5	9 + 1 = 10	6 + 2 = 8	1 + 8 = 9
6 + 4 = 10	5 + 10 = 15	5 + 7 = 12	6 + 8 = 14
1 + 70 = 71	8 + 7 = 15	2 + 8 = 10	2 + 10 = 12
9 + 8 = 17	1 + 9 = 10	0 + 6 = 6	4 + 5 = 9
3 + 1 = 4	3 + 3 = 6	4 + 9 = 13	8 + 2 = 10
10 + 3 = 13	5 + 2 = 7	1 + 4 = 5	6 + 9 = 15
8 + 5 = 13	10 + 6 = 16	6 + 7 = 13	0 + 10 = 10
4 + 0 = 4	4 + 8 = 12	4 + 3 = 7	5 + 3 = 8
10 + 7 = 17	5 + 1 = 6	7 + 1 = 8	8 + 1 = 9
9 + 4 = 13	20 + 9 = 29	9 + 9 = 18	7 + 7 = 14
2 + 7 = 9	6 + 1 = 7	1 + 5 = 6	9 + 5 = 14
7 + 6 = 13	7 + 8 = 15	5 + 6 = 11	1 + 7 = 8

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Purple Phase Beat Your Best Result Sheet

Name: _____

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Purple Phase

Addition

Name: _____

Brilliant!!

100 in 5 minutes.

Date: _____

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Purple Phase

Addition

Name: _____

Brilliant!!

100 in 5 minutes.

Date: _____

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Beat Your Best

Purple Phase Subtraction

(Allow 5 mins max.)

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2 - 1 =	15 - 10 =	18 - 8 =	13 - 6 =
5 - 3 =	9 - 2 =	7 - 0 =	14 - 4 =
11 - 7 =	10 - 9 =	14 - 7 =	6 - 0 =
8 - 5 =	14 - 5 =	10 - 4 =	16 - 8 =
83 - 3 =	11 - 9 =	7 - 6 =	12 - 4 =
6 - 4 =	4 - 0 =	12 - 8 =	8 - 2 =
18 - 10 =	12 - 6 =	17 - 9 =	13 - 10 =
15 - 7 =	7 - 4 =	10 - 5 =	11 - 3 =
9 - 6 =	3 - 1 =	15 - 6 =	14 - 9 =
10 - 3 =	15 - 8 =	24 - 4 =	9 - 8 =
8 - 4 =	12 - 9 =	11 - 8 =	14 - 6 =
3 - 2 =	19 - 10 =	18 - 9 =	13 - 4 =
5 - 4 =	9 - 4 =	11 - 2 =	17 - 7 =
13 - 8 =	10 - 7=	5 - 1 =	12 - 5 =
9 - 0 =	11 - 1 =	14 - 8 =	10 - 2 =
11 - 10 =	14 - 10 =	12 - 3 =	11 - 4 =
6 - 2 =	15 - 9 =	8 - 6 =	8 - 1 =
20 - 10 =	10 - 8 =	9 - 5 =	11 - 5 =
16 - 6 =	4 - 1 =	16 - 7 =	35 - 5 =
9 - 7 =	16 - 10 =	11 - 6 =	13 - 9 =
17 - 8 =	46 - 6 =	6 - 5 =	7 - 2 =
6 - 3 =	7 - 5 =	5 - 2 =	8 - 3 =
13 - 7 =	17 - 10 =	13 - 3 =	12 - 10 =
12 - 2 =	9 - 3 =	18 - 8 =	19 - 9 =
7 - 1 =	16 - 9 =	10 - 1 =	12 - 7 =

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Beat Your Best

Purple Phase Subtraction

(ANSWERS)

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2 - 1 = 1	15 - 10 = 5	18 - 8 = 10	13 - 6 = 7
5 - 3 = 2	9 - 2 = 7	7 - 0 = 7	14 - 4 = 10
11 - 7 = 4	10 - 9 = 1	14 - 7 = 7	6 - 0 = 6
8 - 5 = 3	14 - 5 = 9	10 - 4 = 6	16 - 8 = 8
83 - 3 = 80	11 - 9 = 2	7 - 6 = 1	12 - 4 = 8
6 - 4 = 2	4 - 0 = 4	12 - 8 = 4	8 - 2 = 6
18 - 10 = 8	12 - 6 = 6	17 - 9 = 8	13 - 10 = 3
15 - 7 = 8	7 - 4 = 3	10 - 5 = 5	11 - 3 = 8
9 - 6 = 3	3 - 1 = 2	15 - 6 = 9	14 - 9 = 5
10 - 3 = 7	15 - 8 = 7	24 - 4 = 20	9 - 8 = 1
8 - 4 = 4	12 - 9 = 3	11 - 8 = 3	14 - 6 = 8
3 - 2 = 1	19 - 10 = 9	18 - 9 = 9	13 - 4 = 9
5 - 4 = 1	9 - 4 = 5	11 - 2 = 9	17 - 7 = 10
13 - 8 = 5	10 - 7= 3	5 - 1 = 4	12 - 5 = 7
9 - 0 = 9	11 - 1 = 10	14 - 8 = 6	10 - 2 = 8
11 - 10 = 1	14 - 10 = 4	12 - 3 = 9	11 - 4 = 7
6 - 2 = 4	15 - 9 = 6	8 - 6 = 2	8 - 1 = 7
20 - 10 = 10	10 - 8 = 2	9 - 5 = 4	11 - 5 = 6
16 - 6 = 10	4 - 1 = 3	16 - 7 = 9	35 - 5 = 30
9 - 7 = 2	16 - 10 = 6	11 - 6 = 5	13 - 9 = 4
17 - 8 = 9	46 - 6 = 40	6 - 5 = 1	7 - 2 = 5
6 - 3 = 3	7 - 5 = 2	5 - 2 = 3	8 - 3 = 5
13 - 7 = 6	17 - 10 = 7	13 - 3 = 10	12 - 10 = 2
12 - 2 = 10	9 - 3 = 6	18 - 8 = 10	19 - 9 = 10
7 - 1 = 6	16 - 9 = 7	10 - 1 = 9	12 - 7 = 5

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Purple Phase Beat Your Best Result Sheet

Name: _____

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Purple Phase

Subtraction

Name: _____

Brilliant!!

100 in 5 minutes.

Date: _____

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Purple Phase

Subtraction

Name: _____

Brilliant!!

100 in 5 minutes.

Date: _____

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Purple Phase Mixed Addition & Subtraction
(Allow 5 mins max.)

3 + 4 =	13 - 7 =	7 + 8 =	11 - 6 =
5 - 3 =	12 - 0 =	18 - 8 =	13 - 3 =
7 + 5 =	8 + 9 =	73 - 3 =	4 + 7 =
11 - 7 =	6 + 6 =	5 + 8 =	8 + 6 =
2 + 6 =	14 - 5 =	8 + 3 =	9 + 2 =
8 + 4 =	11 - 9 =	4 + 6 =	13 - 6 =
8 - 5 =	12 - 6 =	14 - 7 =	7 + 0 =
9 + 7 =	7 + 40 =	10 - 4 =	16 - 8 =
13 - 5 =	0 + 5 =	5 + 7 =	12 - 4 =
6 + 5 =	74 - 4 =	12 - 8 =	82 - 2 =
3 + 7 =	9 + 10 =	4 + 9 =	6 + 8 =
15 - 7 =	15 - 8 =	17 - 9 =	11 - 3 =
8 + 10 =	3 + 8 =	6 + 7 =	4 + 5 =
9 - 0 =	12 - 9 =	7 + 9 =	6 + 9 =
9 + 8 =	9 - 4 =	15 - 6 =	14 - 9 =
10 + 3 =	8 + 8 =	9 + 9 =	3 + 10 =
80 + 5 =	5 + 10 =	11 - 8 =	50 + 3 =
8 - 4 =	15 - 9 =	5 + 6 =	14 - 0 =
13 - 8 =	10 - 8 =	14 - 8 =	13 - 4 =
9 + 4 =	8 + 7 =	9 + 6 =	12 - 5 =
7 + 6 =	10 - 6 =	0 + 3 =	7 + 7 =
20 - 10 =	4 + 8 =	10 + 8 =	9 + 5 =
4 + 10 =	96 - 6 =	12 - 3 =	11 - 5 =
16 - 6 =	20 + 9 =	9 - 5 =	1 + 7 =
17 - 8 =	16 - 9 =	16 - 7 =	13 - 9 =

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Purple Phase Mixed Addition & Subtraction
(ANSWERS)

3 + 4 = 7	13 - 7 = 6	7 + 8 = 15	11 - 6 = 5
5 - 3 = 2	12 - 0 = 12	18 - 8 = 10	13 - 3 = 10
7 + 5 = 12	8 + 9 = 17	73 - 3 = 70	4 + 7 = 11
11 - 7 = 4	6 + 6 = 12	5 + 8 = 13	8 + 6 = 14
2 + 6 = 8	14 - 5 = 9	8 + 3 = 11	9 + 2 = 11
8 + 4 = 12	11 - 9 = 2	4 + 6 = 10	13 - 6 = 7
8 - 5 = 3	12 - 6 = 6	14 - 7 = 7	7 + 0 = 7
9 + 7 = 16	7 + 40 = 47	10 - 4 = 6	16 - 8 = 8
13 - 5 = 8	0 + 5 = 5	5 + 7 = 12	12 - 4 = 8
6 + 5 = 11	74 - 4 = 70	12 - 8 = 4	82 - 2 = 80
3 + 7 = 10	9 + 10 = 19	4 + 9 = 13	6 + 8 = 14
15 - 7 = 8	15 - 8 = 7	17 - 9 = 8	11 - 3 = 8
8 + 10 = 18	3 + 8 = 11	6 + 7 = 13	4 + 5 = 9
9 - 0 = 9	12 - 9 = 3	7 + 9 = 16	6 + 9 = 15
9 + 8 = 17	9 - 4 = 5	15 - 6 = 9	14 - 9 = 5
10 + 3 = 13	8 + 8 = 16	9 + 9 = 18	3 + 10 = 13
80 + 5 = 85	5 + 10 = 15	11 - 8 = 3	50 + 3 = 53
8 - 4 = 4	15 - 9 = 6	5 + 6 = 11	14 - 0 = 14
13 - 8 = 5	10 - 8 = 2	14 - 8 = 6	13 - 4 = 9
9 + 4 = 13	8 + 7 = 15	9 + 6 = 15	12 - 5 = 7
7 + 6 = 13	10 - 6 = 4	0 + 3 = 3	7 + 7 = 14
20 - 10 = 10	4 + 8 = 12	10 + 8 = 18	9 + 5 = 14
4 + 10 = 14	96 - 6 = 90	12 - 3 = 9	11 - 5 = 6
16 - 6 = 10	20 + 9 = 29	9 - 5 = 4	1 + 7 = 8
17 - 8 = 9	16 - 9 = 7	16 - 7 = 9	13 - 9 = 4

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Purple Phase Beat Your Best Result Sheet

Name: _____

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Purple Phase

Mixed Addition & Subtraction

Name: _____

Brilliant!!

100 in 5 minutes.

Date: _____

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Purple Phase

Mixed Addition & Subtraction

Name: _____

Brilliant!!

100 in 5 minutes.

Date: _____

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