Varied Fluency
Step 4: Related Facts

National Curriculum Objectives:

Mathematics Year 2: (2C1) Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

Differentiation:

Developing Questions to support using addition facts to 10 to derive related addition facts to 100.

Expected Questions to support using addition and subtraction facts to 10 to derive related addition and subtraction facts to 100.

Greater Depth Questions to support using additions and subtraction facts to 10 to derive related addition and subtraction facts to 100, where a change occurs in more than one place value column, i.e. 3 + 4 = 7, 30 + 40 = 70, 33 + 44 = 77

More Year 2 Addition and Subtraction resources.

Did you like this resource? Don't forget to review it on our website.

Related Facts

1a. Write the calculations represented below.

①① + ①①①

| 2 | + | 3 | = | |

⑩⑩ + ⑩⑩⑩

| | | + | | = | | |

VF

Related Facts

1b. Write the calculations represented below.

①①① + ①①①

| 3 | + | 3 | = | |

⑩⑩⑩ + ⑩⑩⑩

| | | + | | = | | |

VF

2a. True or false?

+ 40

10 20 30 40 50

VF

2b. True or false?

+ 50

30 40 50 60 70 80 90
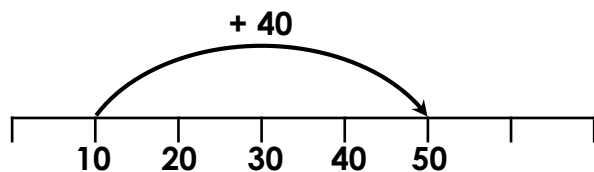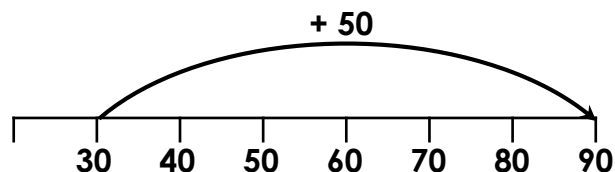
VF

3a. Complete the bar models below.

6	3

60	30
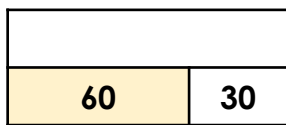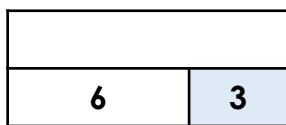
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3b. Complete the bar models below.

5	2

50	20
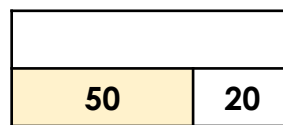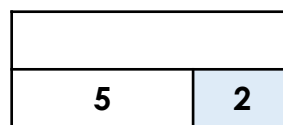
VF

4a. Fill in the missing numbers.

2 + 4 →
20 + 40 →
3 + 4 →
30 + 40 →

=

VF

4b. Fill in the missing numbers.

4 + 2 →
40 + 20 →
6 + 3 →
60 + 30 →

=

VF

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Varied Fluency – Related Facts – Year 2 Developing
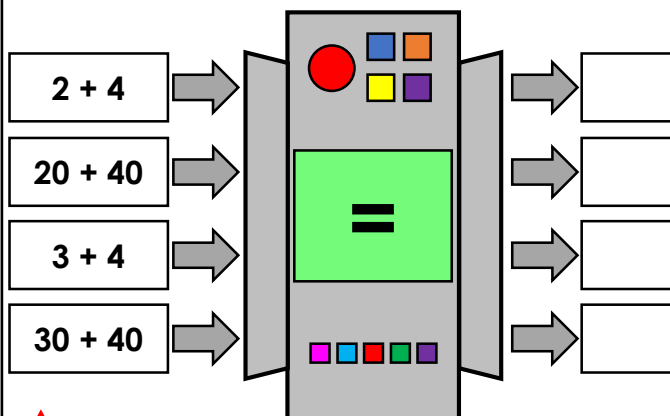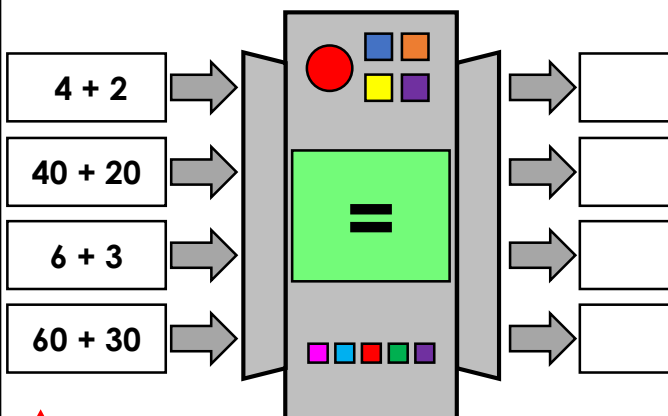
Related Facts

5a. Write the calculations represented below.

1 1 1 1 ~~1~~ ~~1~~ ~~1~~

| | − | | = | |

10 10 10 10 ~~10~~ ~~10~~ ~~10~~

| | | − | | | = | | |

E · VF

6a. True or false?

+ 50

20 ——————— 80

E · VF

7a. Complete the bar models below.

| 4 | |
| 3 | |

| 40 | |
| | 10 |

E · VF

8a. Fill in the missing numbers.

3 + 4 → ▢
30 + 40 → ▢
7 − 5 → ▢
70 − 50 → ▢

E · VF

Related Facts

5b. Write the calculations represented below.

1 1 1 + 1 1

| | + | | = | |

10 10 10 + 10 10

| | | + | | | = | | |
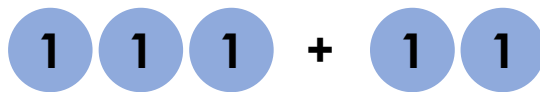
E · VF

6b. True or false?

− 70

20 ——————— 90
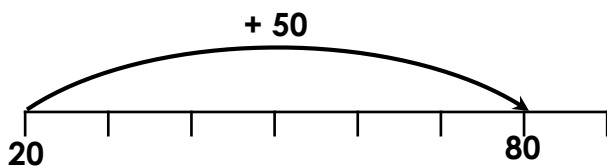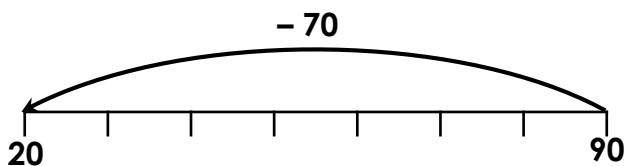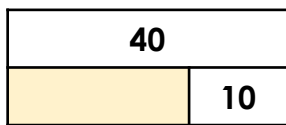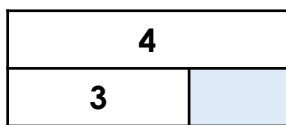
E · VF

7b. Complete the bar models below.

| | |
| 5 | 2 |

| 70 | |
| 50 | |
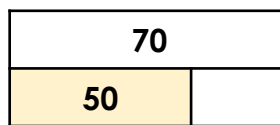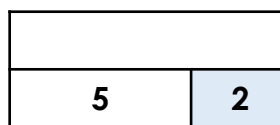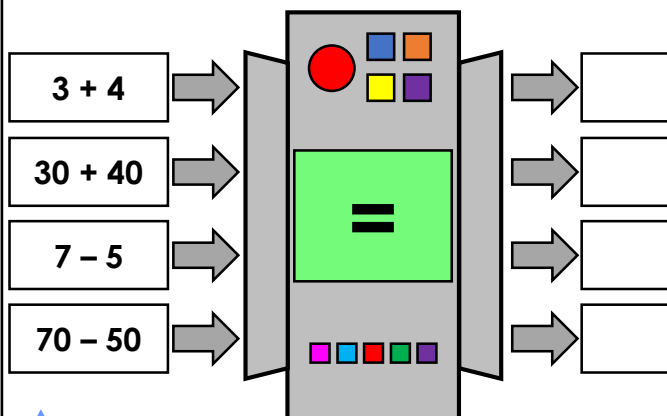
E · VF

8b. Fill in the missing numbers.

9 − 6 → ▢
90 − 60 → ▢
5 + 3 → ▢
50 + 30 → ▢

E · VF
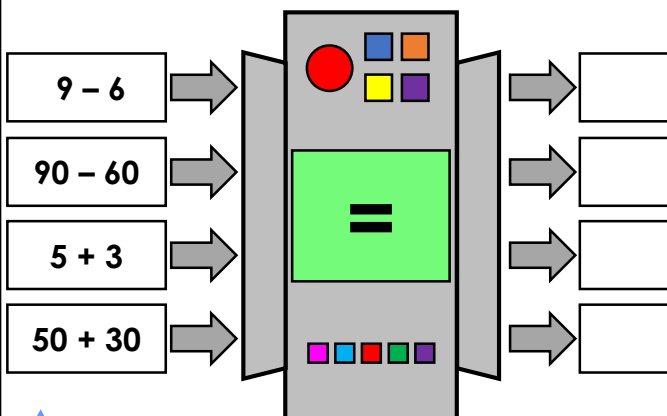
Related Facts

Related Facts

9a. Write the calculations represented below.

(1)(1) **+** (1)

	+		=	

(10)(10)(1)(1) **+** (10)(1)

		+		=		

GD — VF

9b. Write the calculations represented below.

(1)(1) **+** (1)(1)

	+		=	

(10)(10)(1)(1) **+** (10)(10)(1)(1)

		+		=		

GD — VF

10a. True or false?

-66

22   88
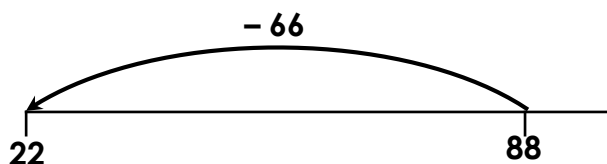
GD — VF

10b. True or false?

-55

33   77
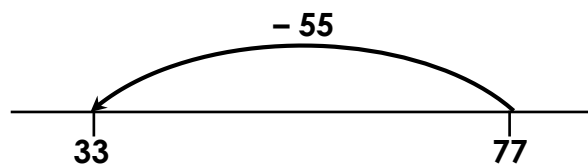
GD — VF

11a. Complete the bar models below.

4

3	

44

33	
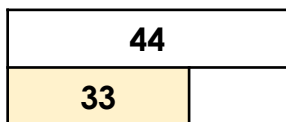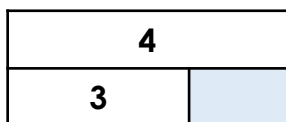
GD — VF

11b. Complete the bar models below.

8

6	

88

	22
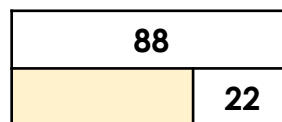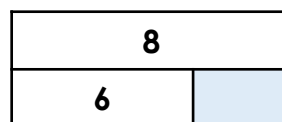
GD — VF

12a. Fill in the missing numbers.

3 + 4	➤		➤	
33 + 44	➤	=	➤	
9 − 5	➤		➤	
99 − 55	➤		➤	

GD — VF

12b. Fill in the missing numbers.

8 − 6	➤		➤	
88 − 66	➤	=	➤	
5 + 3	➤		➤	
55 + 33	➤		➤	

GD — VF

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Varied Fluency – Related Facts – Year 2 Greater Depth
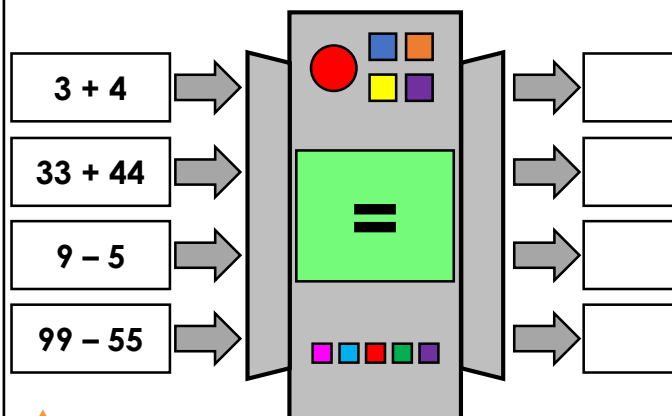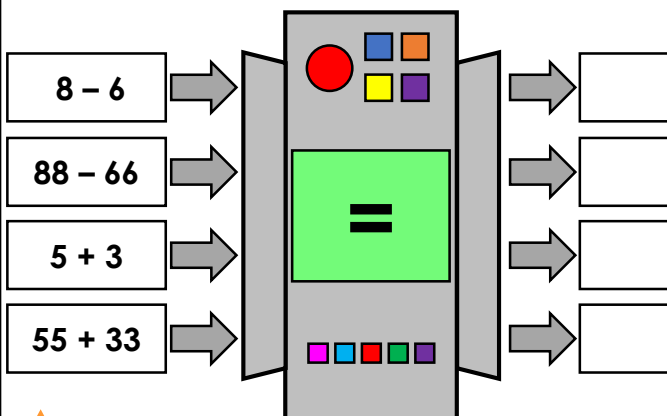
Varied Fluency
Related Facts

Developing
1a. 2 + 3 = 5, 20 + 30 = 50
2a. True
3a. 9, 90
4a. 6, 60, 7, 70

Expected
5a. 7 – 3 = 4, 70 – 30 = 40
6a. True
7a. 1, 30
8a. 7, 70, 2, 20

Greater Depth
9a. 2 + 1 = 3, 22 +11 = 33
10a. True
11a. 1, 11
12a. 7, 77, 4, 44

Developing
1b. 3 + 3 = 6, 30 + 30 = 60
2b. False. 30 + 60 = 90
3b. 7, 70
4b. 6, 60, 9, 90

Expected
5b. 3 + 2 = 5, 30 + 20 = 50
6b. False. 80 – 60 = 20
7b. 7, 20
8b. 3, 30, 8, 80

Greater Depth
9b. 2 + 2 = 4, 22 + 22 = 44
10b. False. 77 – 44 = 33
11b. 2, 66
12b. 2, 22, 8, 88