

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.

$$1 \ 1 \ + \ 1 \ 1 \ 1$$

$$2 \ + \ 3 \ = \ \square$$

$$10 \ 10 \ + \ 10 \ 10 \ 10$$

$$\square \ + \ \square \ = \ \square$$



VF

Related Facts

1b. Write the calculations represented below.

$$1 \ 1 \ 1 \ + \ 1 \ 1 \ 1$$

$$3 \ + \ 3 \ = \ \square$$

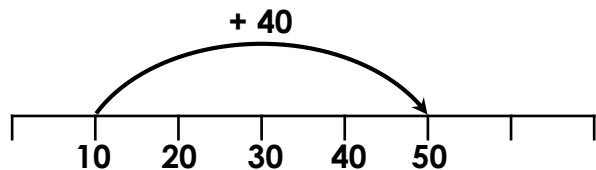
$$10 \ 10 \ 10 \ + \ 10 \ 10 \ 10$$

$$\square \ + \ \square \ = \ \square$$



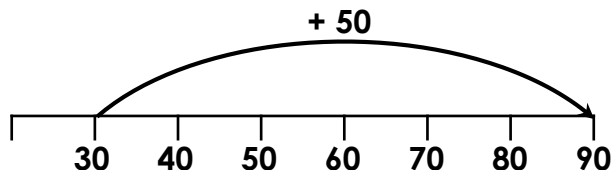
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2a. True or false?



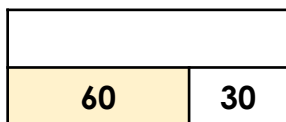
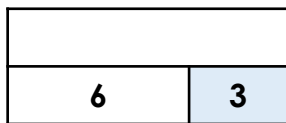
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2b. True or false?



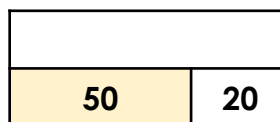
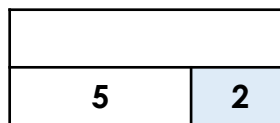
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3a. Complete the bar models below.



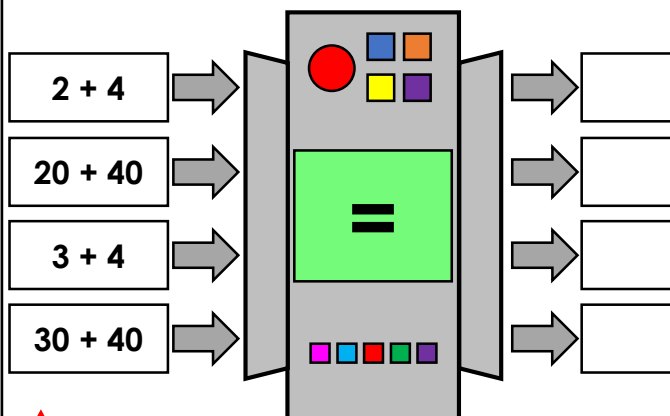
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3b. Complete the bar models below.



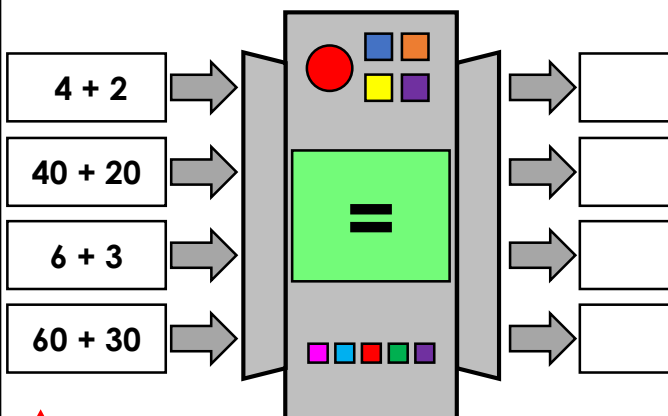
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4a. Fill in the missing numbers.



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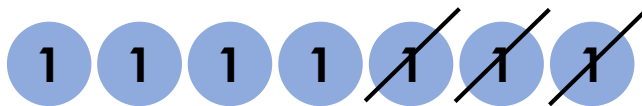
4b. Fill in the missing numbers.



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Related Facts

5a. Write the calculations represented below.



	-		=	
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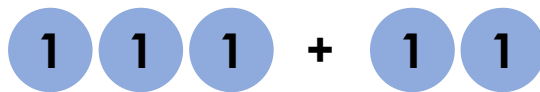
		-			=		
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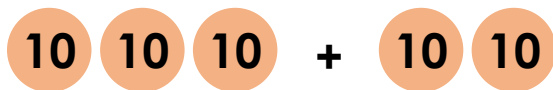
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Related Facts

5b. Write the calculations represented below.



	+		=	
--	---	--	---	--

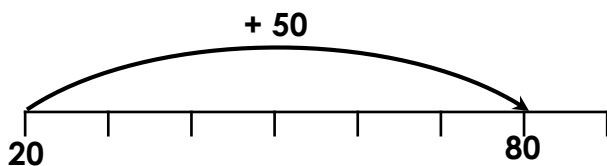


		+			=		
--	--	---	--	--	---	--	--



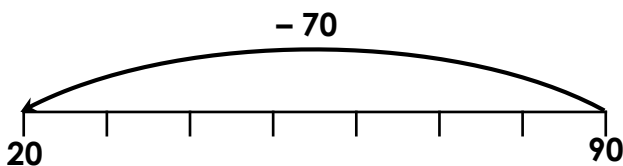
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6a. True or false?



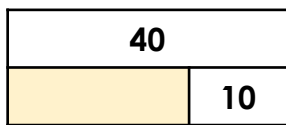
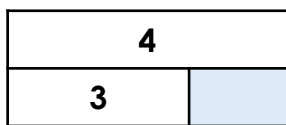
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6b. True or false?



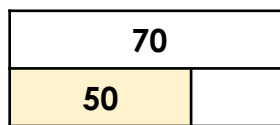
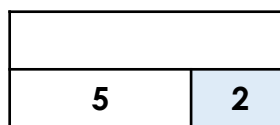
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7a. Complete the bar models below.



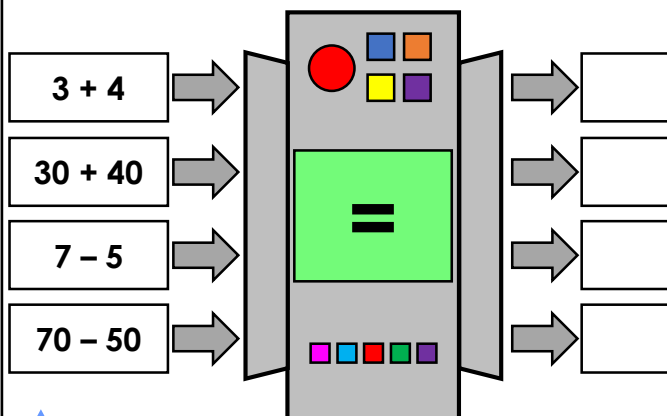
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7b. Complete the bar models below.



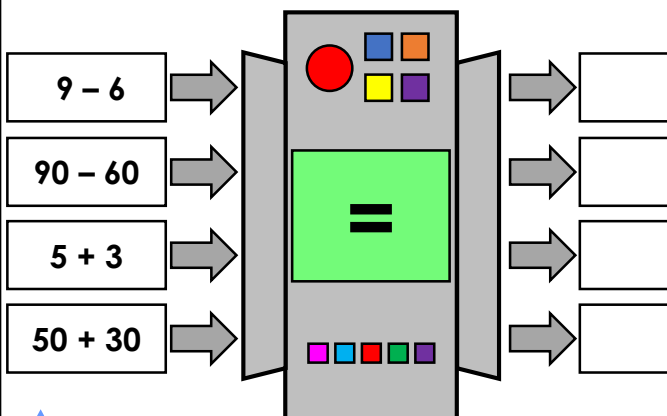
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8a. Fill in the missing numbers.



VF

8b. Fill in the missing numbers.



VF

Related Facts

9a. Write the calculations represented below.

$$1 + 1 + 1$$

	+		=	
--	---	--	---	--

$$10 + 10 + 1 + 1 + 10 + 1$$

		+			=		
--	--	---	--	--	---	--	--



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Related Facts

9b. Write the calculations represented below.

$$1 + 1 + 1 + 1$$

	+		=	
--	---	--	---	--

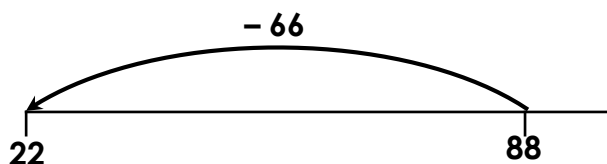
$$10 + 10 + 1 + 1 + 10 + 10 + 1 + 1$$

		+			=		
--	--	---	--	--	---	--	--



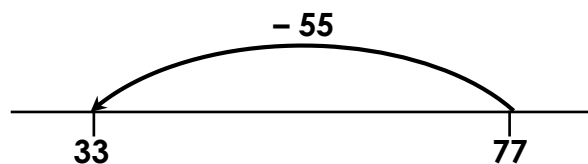
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10a. True or false?



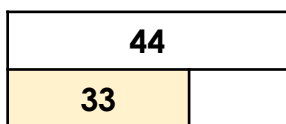
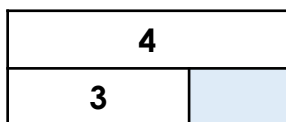
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10b. True or false?



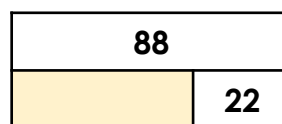
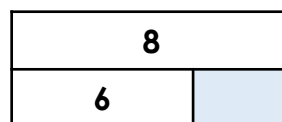
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11a. Complete the bar models below.



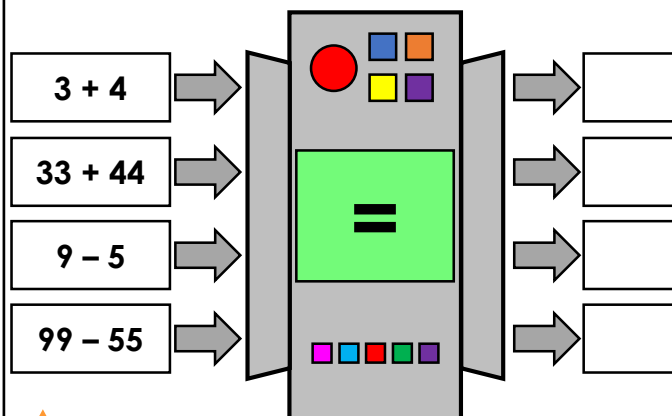
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11b. Complete the bar models below.



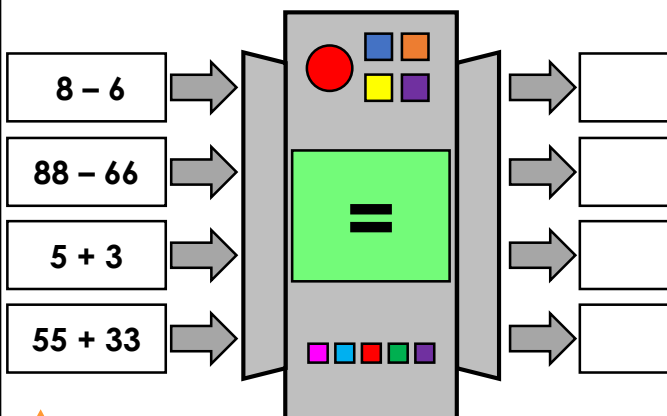
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12a. Fill in the missing numbers.



VF

12b. Fill in the missing numbers.



VF

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

Varied Fluency
Related Facts

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