

# Varied Fluency

## Step 4: Related Facts

### National Curriculum Objectives:

Mathematics Year 2: (2N2a) [Read and write numbers to at least 100 in numerals and in words](#)

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

Mathematics Year 2: (2C3) [Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems](#)

Mathematics Year 2: (2N4) [Identify, represent and estimate numbers using different representations, including the number line](#)

Mathematics Year 2: (2N6) [Use place value and number facts to solve problems](#)

### Differentiation:

**Developing** Questions to support using related addition facts to 100.

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

**Greater Depth** Questions to support using related addition and subtraction facts beyond 100.

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

# Varied Fluency – Related Facts

1a. Fill in the missing number.

$$2 + 3 = 5$$
$$20 + 30 = \underline{\quad}$$



VF

1b. Fill in the missing number.

$$1 + 3 = 4$$
$$10 + 30 = \underline{\quad}$$



VF

2a. Fill in the missing number.

$$5 = 1 + 4$$
$$50 = 10 + \underline{\quad}$$



VF

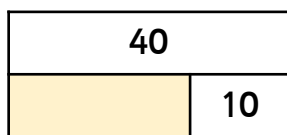
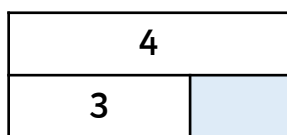
2b. Fill in the missing number.

$$3 = 1 + 2$$
$$30 = 10 + \underline{\quad}$$



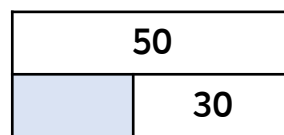
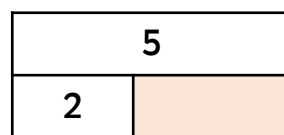
VF

3a. Complete the bar models below.



VF

3b. Complete the bar models below.



VF

4a. True or false?

I have 1 blue balloon and 3 green balloons. I have 4 balloons altogether.  
So 10 add 30 must equal 40.



VF

4b. True or false?

I have 2 pink buttons and 8 black buttons. I have 10 buttons altogether.  
So 20 add 80 must equal 10.



VF

# Varied Fluency – Related Facts

5a. Fill in the missing number.

$$6 + 3 = 9$$
$$60 + 30 = \underline{\quad}$$



VF

5b. Fill in the missing number.

$$7 + 3 = 10$$
$$70 + 30 = \underline{\quad}$$



VF

6a. Fill in the missing number.

$$9 = 10 - 1$$
$$90 = 100 - \underline{\quad}$$



VF

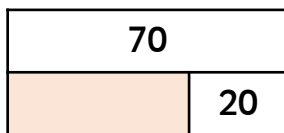
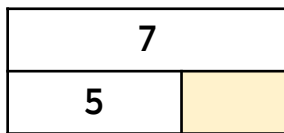
6b. Fill in the missing number.

$$7 = 9 - 2$$
$$70 = 90 - \underline{\quad}$$



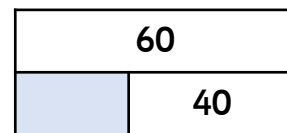
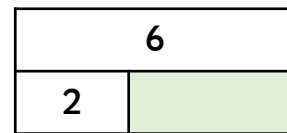
VF

7a. Complete the bar models below.



VF

7b. Complete the bar models below.



VF

8a. True or false?

I have 5 red sweets and 3 blue sweets. I have 8 sweets altogether.  
So 50 add 30 must equal 80.



VF

8b. True or false?

I have 5 silver pens and 1 gold pen. I have 6 pens altogether.  
So 50 add 10 must equal 60.



VF

# Varied Fluency – Related Facts

9a. Fill in the missing number.

$$6 + 5 = 11$$
$$60 + 50 = \underline{\quad}$$



VF

9b. Fill in the missing number.

$$7 + 5 = 12$$
$$70 + 50 = \underline{\quad}$$



VF

10a. Fill in the missing number.

$$13 = 15 - 2$$
$$130 = 150 - \underline{\quad}$$



VF

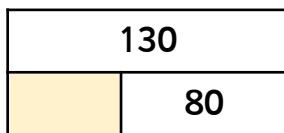
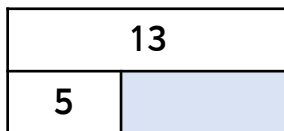
10b. Fill in the missing number.

$$11 = 12 - 1$$
$$110 = 120 - \underline{\quad}$$



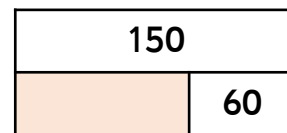
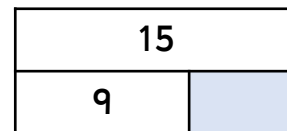
VF

11a. Complete the bar models below.



VF

11b. Complete the bar models below.



VF

12a. True or false?

I have 9 purple flowers and 2 blue flowers. I have 11 flowers altogether.  
So 90 add 20 must equal 111.



VF

12b. True or false?

I have 5 pink ice pops and 8 orange ice pops. I have 13 ice pops altogether.  
So 50 add 80 must equal 130.



VF

# Varied Fluency – Related Facts

## Developing

- 1a. 50
- 1b. 40
- 2a. 40
- 2b. 20
- 3a. 1, 30
- 3b. 3, 20
- 4a. True
- 4b. False,  $20 + 80 = 100$

## Expected

- 5a. 90
- 5b. 100
- 6a. 10
- 6b. 20
- 7a. 2, 50
- 7b. 4, 20
- 8a. True
- 8b. True

## Greater Depth

- 9a. 110
- 9b. 120
- 10a. 20
- 10b. 10
- 11a. 8, 50
- 11b. 6, 90
- 12a. False,  $90 + 20 = 110$ .
- 12b. True