Varied Fluency
Step 1: Fact Families

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

Differentiation:

Developing Questions to support understanding the relationship between addition and subtraction and the purpose of the =, + and – signs. Use of one-to-one pictorial representations within 10 to support.
Expected Questions to support understanding the relationship between addition and subtraction and the purpose of the =, + and – signs. Use of pictorial support, including ten frames, part whole models within 20.
Greater Depth Questions to support understanding the relationship between addition and subtraction and the purpose of the =, + and – signs. Use of numbers, words and a variety of representations within 20, including number lines.

More Year 2 and Year 3 Addition and Subtraction resources.

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

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Fact Families

1a. Which number sentence does not match the counters in this ten frame?

3 + 7 = 10
7 + 3 = 10
10 – 3 = 7
7 – 10 = 3

D

2 VF

Fact Families

1b. Which number sentence does not match the counters in this ten frame?

4 + 6 = 10
6 + 4 = 10
6 – 10 = 4
10 – 4 = 6

D

2 VF

2a. True or false?

If 5 + 5 = 10, then 10 – 5 = 5.

D

2 VF

2b. True or false?

If 3 + 4 = 7, then 7 – 4 = 3.

D

2 VF

3a. Use the tens frame to complete the missing numbers.

3 + ☐ = 8

☐ + 3 = 8

D

2 VF

3b. Use the tens frame to complete the missing numbers.

4 + ☐ = 9

☐ + 4 = 9

D

2 VF

4a. Write four sentences to describe the fact family shown in the part whole model.

D

2 VF

4b. Write four sentences to describe the fact family shown in the part whole model.

D

2 VF

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Fact Families

5a. Which number sentence does not match the counters in these ten frames?

4 + 16 = 20

16 + 4 = 20

16 – 20 = 4

20 – 4 = 16

2 VF

6a. True or false?

If 18 + 2 = 20, then 20 + 2 = 18.

2 VF

7a. Use the tens frame to complete the missing numbers.

7 + ____ = 19

19 – ____ = 7

2 VF

8a. Write four sentences to describe the fact family shown in the part whole model.

2 VF

Fact Families

5b. Which number sentence does not match the counters in these ten frames?

3 + 17 = 20

17 + 3 = 20

20 – 3 = 17

17 – 20 = 3

2 VF

6b. True or false?

If 11 + 6 = 17, then 17 + 6 = 11.

2 VF

7b. Use the tens frame to complete the missing numbers.

3 + ____ = 16

16 – ____ = 3

2 VF

8b. Write four sentences to describe the fact family shown in the part whole model.

2 VF

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Fact Families

Fact Families

9a. Which number sentence does not match the jumps on the number line?

18 = 6 + 12
6 + 12 = 18
12 – 18 = 6
18 = 12 + 6

GD 2 VF

9b. Which number sentence does not match the jumps on the number line?

14 = 5 + 9
5 + 9 = 14
9 – 14 = 5
14 = 9 + 5

GD 2 VF

10a. True or false?

If 20 – 9 = 11, then 20 + 11 = 9.

GD 2 VF

10b. True or false?

If 16 – 7 = 9, then 16 + 7 = 9.

GD 2 VF

11a. Use the bar model to complete the missing numbers.

17 = ____ + 4

____ = 17 – 4

GD 2 VF

11b. Use the bar model to complete the missing numbers.

6 = 19 – ____

6 + ____ = 19

GD 2 VF

12a. Write four sentences to describe the fact family shown in the part whole model.

GD 2 VF

12b. Write four sentences to describe the fact family shown in the part whole model.

GD 2 VF

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Fact Families

Developing

1a. 7 – 10 = 3
2a. True
3a. 5
4a. 5 + 1 = 6, 1 + 5 = 6, 6 – 5 = 1, 6 – 1 = 5

Expected

5a. 16 – 20 = 4
6a. False, because 20 + 2 = 22; it should be 20 – 2 = 18.
7a. 12
8a. 7 + 6 = 13, 6 + 7 = 13, 13 – 7 = 6, 13 – 6 = 7

Greater Depth

9a. 12 – 18 = 6
10a. False, because 20 + 11 = 31; it should be 20 – 11 = 9.
11a. 13
12a. twelve + four = sixteen;
four + twelve = sixteen;
sixteen – twelve = four;
sixteen – four = twelve.

Varied Fluency
Fact Families

Developing

1b. 6 – 10 = 4
2b. True
3b. 5
4b. 5 + 4 = 9, 4 + 5 = 9, 9 – 5 = 4, 9 – 4 = 5

Expected

5b. 17 – 20 = 3
6b. False, because 17 + 6 = 23; it should be 17 – 6 = 11.
7b. 13
8b. 4 + 11 = 15, 11 + 4 = 15, 15 – 4 = 11, 15 – 11 = 4

Greater Depth

9b. 9 – 14 = 5
10b. False, because 16 + 7 = 23; it should be 16 – 7 = 9.
11b. 13
12b. seven + eight = fifteen;
eight + seven = fifteen;
fifteen – eight = seven;
fifteen – seven = eight.

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