Varied Fluency Step 1: Fact Families

National Curriculum Objectives:

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

Mathematics Year 2: (2C3) <u>Recognise and use the inverse relationship between addition</u> 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 Addition and Subtraction resources.

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



classroomsecrets.co.uk

Fact Families

Fact Families

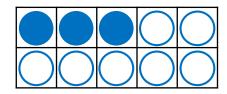
1a. Which number sentence does not match the counters in this ten frame?

$$3 + 7 = 10$$

$$7 + 3 = 10$$

$$10 - 3 = 7$$

$$7 - 10 = 3$$



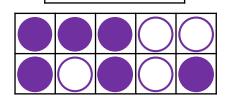
1b. Which number sentence does not match the counters in this ten frame?

$$4 + 6 = 10$$

$$6 + 4 = 10$$

$$6 - 10 = 4$$

$$10 - 4 = 6$$





2a. True or false?

If
$$5 + 5 = 10$$
, then $10 - 5 = 5$.



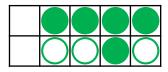
2b. True or false?

If
$$3 + 4 = 7$$
, then $7 - 4 = 3$.



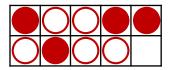


3a. Use the tens frame to complete the missing numbers.

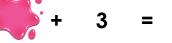




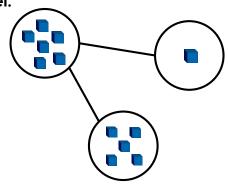
3b. Use the tens frame to complete the missing numbers.



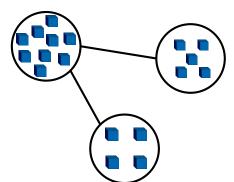




4a. Write four sentences to describe the fact family shown in the part whole model.



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





© Classroom Secrets Limited 2018

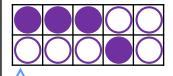
Fact Families

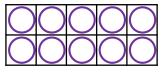
Fact Families

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

$$16 - 20 = 4$$

$$20 - 4 = 16$$





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

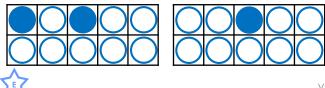
$$3 + 17 = 20$$

$$17 + 3 = 20$$

$$20 - 3 = 17$$

$$17 - 20 = 3$$





6a. True or false?

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

6b. True or false?

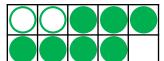
If 11 + 6 = 17, then 17 + 6 = 11.





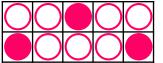


missing numbers.





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





16

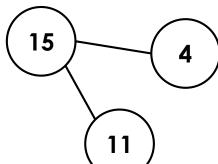




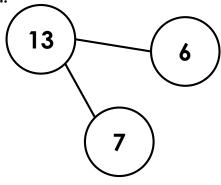




8b. Write four sentences to describe the fact family shown in the part whole model.



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





Fact Families

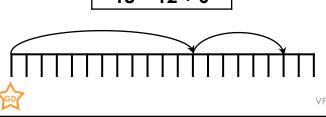
Fact Families

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

$$6 + 12 = 18$$

$$12 - 18 = 6$$

$$18 = 12 + 6$$



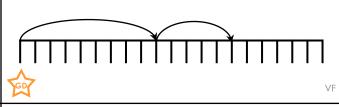
9b. Which number sentence does not match the jumps on the number line?

$$14 = 5 + 9$$

$$5 + 9 = 14$$

$$9 - 14 = 5$$

$$14 = 9 + 5$$



10a. True or false?

If
$$20 - 9 = 11$$
, then $20 + 11 = 9$.

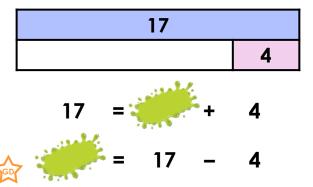
10b. True or false?

If
$$16 - 7 = 9$$
, then $16 + 7 = 9$.

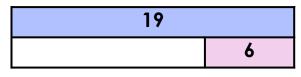




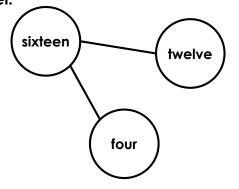
11a. Use the bar model to complete the missing numbers.



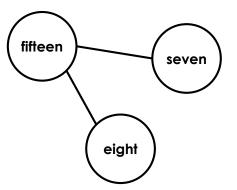
11b. Use the bar model to complete the missing numbers.



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



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



classroomsecrets.co.uk

Varied Fluency Fact Families

Varied Fluency Fact Families

<u>Developing</u>

$$1a.7 - 10 = 3$$

$$4a. 5 + 1 = 6, 1 + 5 = 6, 6 - 5 = 1, 6 - 1 = 5$$

Expected

$$5a. 16 - 20 = 4$$

be
$$20 - 2 = 18$$
.

8a.
$$7 + 6 = 13$$
, $6 + 7 = 13$, $13 - 7 = 6$,

$$13 - 6 = 7$$

Greater Depth

$$9a. 12 - 18 = 6$$

Developing

$$1b.6 - 10 = 4$$

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
$$17 - 6 = 11$$
.

8b.
$$4 + 11 = 15$$
, $11 + 4 = 15$, $15 - 4 = 11$,

$$15 - 11 = 4$$

Greater Depth

9b.
$$9 - 14 = 5$$

be
$$16 - 7 = 9$$
.