Homework/Extension
Step 1: Fact Families

National Curriculum Objectives:

Mathematics Year 2: (2C1) <u>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</u>
Mathematics Year 2: (2C3) <u>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems</u>

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Write number sentences to represent the part whole model using the =, + and – signs. Use of one-to-one pictorial representations within 10 to support.
Expected Write number sentences that represent the part whole model using the =, + and – signs. Use of pictorial support within 20.
Greater Depth Write number sentences to represent the part whole model using the =, + and – signs. Use of numbers, words and a variety of representations within 20.

Questions 2, 5 and 8 (Varied Fluency)
Developing Complete statements using a completed bar model to show 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 Complete statements using a completed bar model to show the relationship between addition and subtraction and the purpose of the =, + and – signs within 20.
Greater Depth Complete number lines using a completed bar model to show the relationship between addition and subtraction and the purpose of the =, + and – signs within 20.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Use number cards to complete number sentences and corresponding representations to show the relationship between addition and subtraction. Use of ten frames and part-whole models within 10.
Expected Use number cards to complete number sentences and corresponding representations to show the relationship between addition and subtraction. Use ten frames and part-whole models within 20.
Greater Depth Use number cards to complete number sentences and corresponding representations to show the relationship between addition and subtraction. Use of ten frames and part-whole models within 20, numbers represented as words.

More <u>Year 2 Addition and Subtraction</u> resources.

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

classroomsecrets.co.uk

Fact Families

1. Gabi has 8 pens and pencils. Using +, – and = write the 4 number sentences that show Gabi's pens and pencils.

8
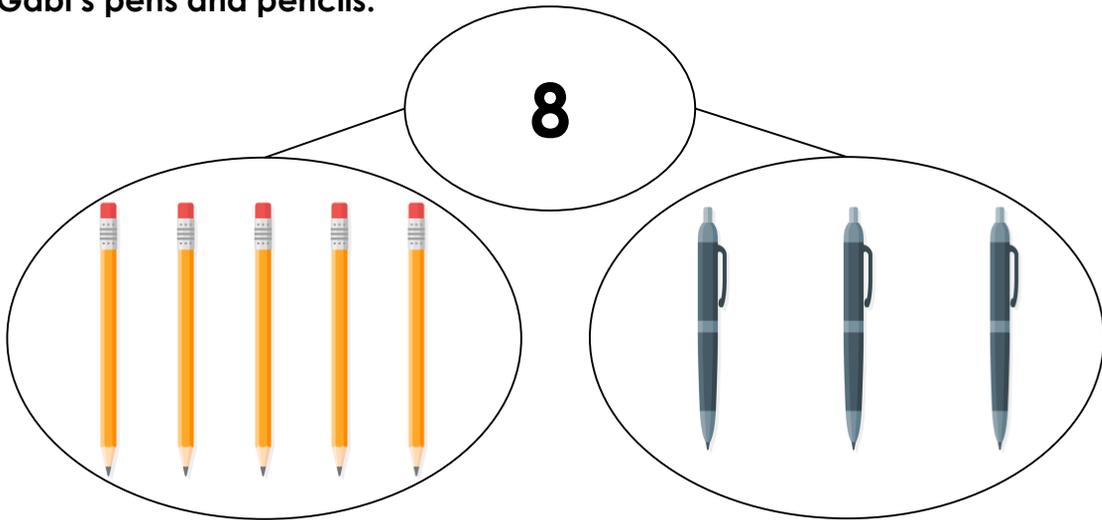
VF
HW/Ext

2. Use the bar model to complete the number sentences below. Use the number track to help you.

9

5	4

1	2	3	4	5	6	7	8	9	10

4 + 5 = 9   ☐ + 4 = 9

9 – ☐ = 4   9 – 4 = ☐
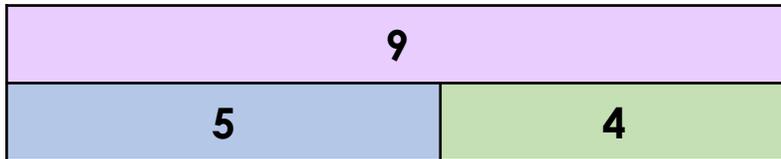
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3. Use the cards to complete the fact family number sentences. Complete the part-whole model and ten frame to match your sentences.

1 2 3 4 5 6 7 8 9 10

A. ☐ + ☐ = 6   B. ☐ + ☐ = 6

C. 6 – ☐ = 4   D. 6 – ☐ = 2

E. 6   F.
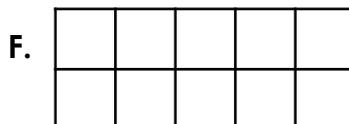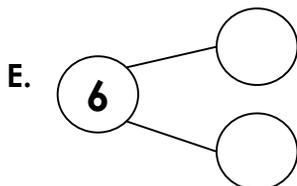
RPS
HW/Ext

Fact Families

4. Frankie has 14 pets. Using +, – and = write the 4 number sentences that show Frankie's pets.

14

⭐ E
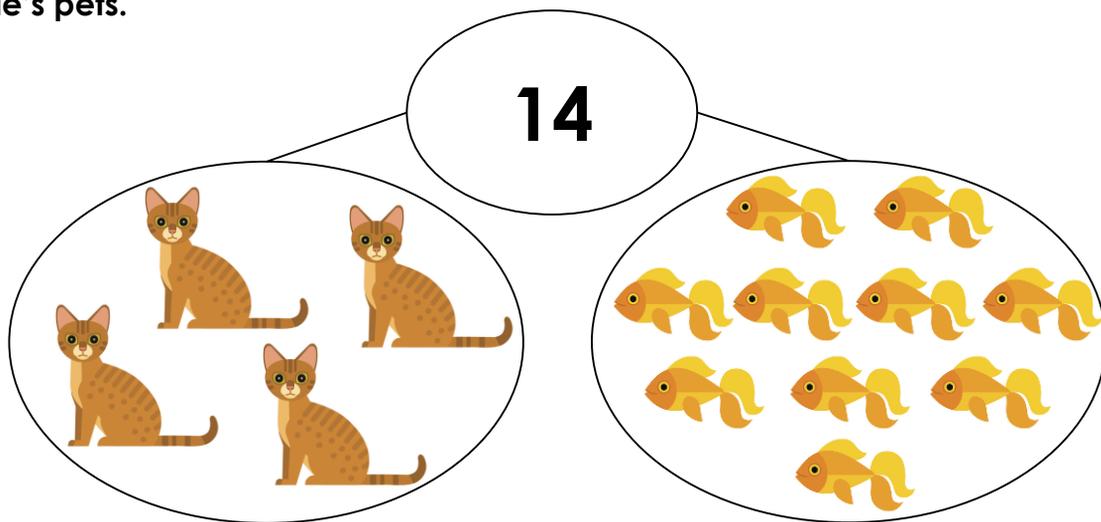
VF
HW/Ext

5. Use the bar model to complete the number sentences below.

17	
5	12

12	+		=	17		5	+		=	17

	–	5	=				–	12	=	

⭐ E
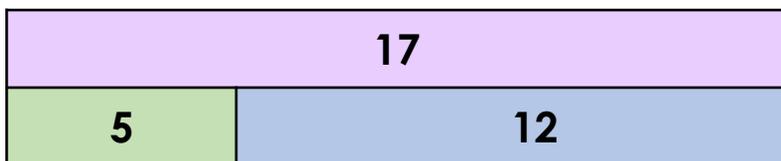
VF
HW/Ext

6. Use the cards to complete the fact family number sentences. Complete the part-whole model and ten frames to match your sentences.

1 2 3 4 5 6 7 8 9 10

A. ☐ + ☐ = 16   B. ☐ + ☐ = 16

C. 16 – ☐ = ☐   D. 16 – ☐ = ☐

E. 16

F.

⭐ E
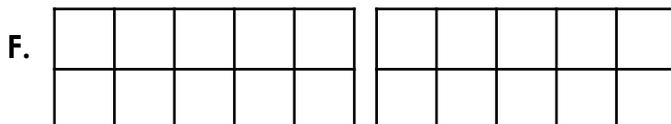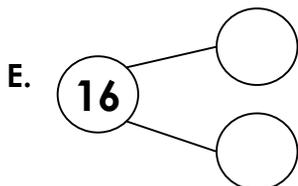
RPS
HW/Ext

Fact Families

7. Sacha has 17 tools. Using +, – and = write the 4 number sentences that could show Sacha's tools.

seventeen

Hammers

Screwdrivers
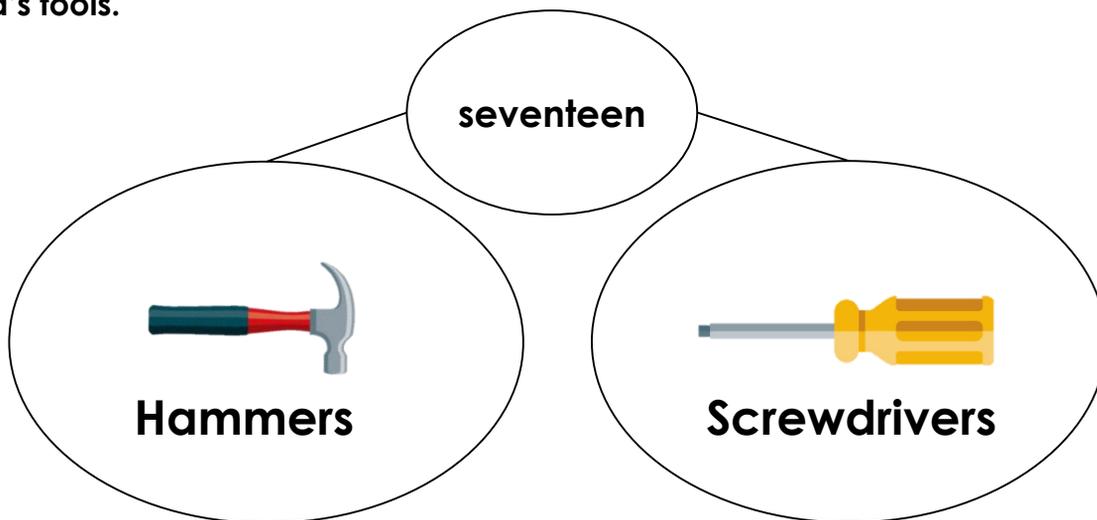
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HW/Ext

8. Use the bar model to complete the number lines below.

eighteen	
three	fifteen

A. 3   ?

18

B.

18

C.

18

D.

18
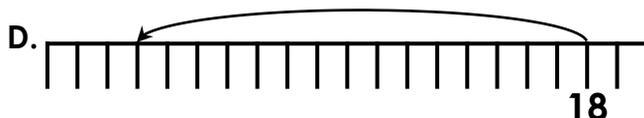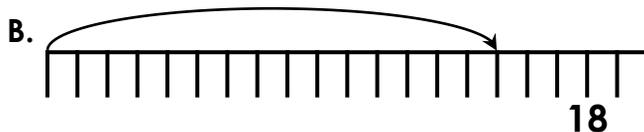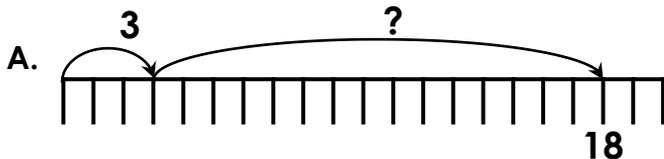
VF
HW/Ext

9. Use the cards to make four fact family number sentences within twenty. Complete the part-whole model and ten frames to match your sentences.

| one | two | three | four | five | six | seven | eight | nine | ten |

A. ☐ + ☐ = ☐   **B.** ☐ + ☐ = ☐

C. ☐ – ☐ = ☐   **D.** ☐ – ☐ = ☐

E.

F.

RPS
HW/Ext
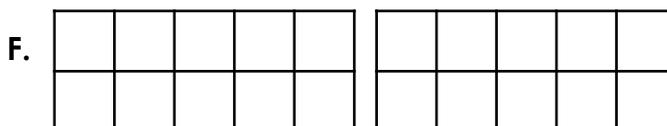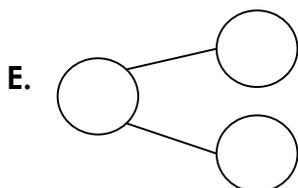
Developing
1. 5 + 3 = 8; 3 + 5 = 8; 8 – 3 = 5; 8 – 5 = 3
2. <u>5</u> + 4 = 9; 9 – <u>5</u> = 4; 9 – 4 = <u>5</u>
3. A. <u>2</u> + <u>4</u> = 6; B. <u>4</u> + <u>2</u> = 6; C. 6 – <u>2</u> = 4; D. 6 – <u>4</u> = 2; E. 2 and 4; F. Accept any accurate representation of the number sentences within the ten frame.

Expected
4. 4 + 10 = 14; 10 + 4 = 14; 14 – 10 = 4; 14 – 4 = 10
5. 12 + <u>5</u> = 17; 5 + <u>12</u> = 17; <u>17</u> – 5 = <u>12</u>; <u>17</u> – 12 = <u>5</u>
6. Various answers, for example: A. 9 + 7 = 16; B. 7 + 9 = 16; C. 16 – 7 = 9; D. 16 – 9 = 7; E. 9 and 7; F. F. Accept any accurate representation of the number sentences within the ten frames.

Greater Depth
7. Various answers, for example: 8 + 9 = 17; 9 + 8 = 17; 17 – 8 = 9; 17 – 9 = 8
8. A. jump of 15 labelled; B. jump of 15 labelled, jump of 3 drawn and labelled; C. jump of 3 labelled, jump of 15 drawn and labelled; D. jump of 15 labelled, jump of 3 drawn and labelled.
9. Various answers, for example: A. 6 + 13 = 19; B. 13 + 6 = 19; C. 19 – 13 = 6; D. 19 – 6 = 13; E. 6, 13 and 19; F. Accept any accurate representation of the number sentences within the ten frames.