Homework/Extension Step 7: Related Facts

National Curriculum Objectives:

Mathematics Year 1: (1C2a) Add and subtract one-digit and two-digit numbers to 20, including zero

Mathematics Year 1: (1C4) Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use the bar model to complete the related facts. Labelled bar model provided.

Expected Label the bar model and complete the related facts. Part labelled bar model provided.

Greater Depth Label the bar model and complete the related facts. Blank bar model provided.

Questions 2, 5 and 8 (Varied Fluency)

Developing Recognise the related facts and match the inverse calculations. Ten frames provided as support.

Expected Recognise the related facts and match the inverse calculations. No pictorial support provided.

Greater Depth Recognise the related facts to complete the calculations and match to the inverse. No pictorial support provided.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain which statement is correct when recognising related facts. Images provided to support.

Expected Explain which statement is correct when recognising related facts. Part-whole model provided to support.

Greater Depth Explain which statement is correct when recognising related facts. Digit cards provided to support.

More Year 1 Addition and Subtraction resources.

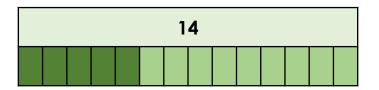
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Related Facts

1. Complete the calculations using the bar model below.

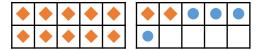




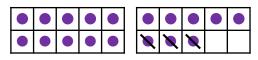
HW/Ext

2. Match each calculation to the inverse.

A.
$$12 + 4 = 16$$



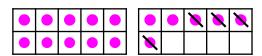
1.
$$18 - 3 = 15$$



B.
$$15 + 3 = 18$$



$$2. 16 - 4 = 12$$





3. Max and Alina are looking at the fruit below.



Max says,





I can write 2 calculations about the fruit.

I can write 4 calculations about the fruit.



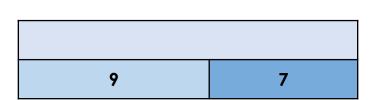
Who is correct? Explain your answer.



RPS HW/Ext

Related Facts

4. Complete the calculations and the bar model below.



- A. | + | = 16
- B. 7 + =
- C. 9 =
- D. 16 =



VF HW/Ext

5. Match each calculation to the inverse.

C.
$$9 + 5 = 14$$

1. 14 – 8 = 6

3.
$$14-5=9$$



HW/Ext

6. Jess and Ben are looking at the part-whole model below.

Jess says,

В.



Ben says,



I can write 1 calculation using the part-whole model.

I can write 4 calculations using the part-whole model.



Who is correct? Explain your answer.



RPS HW/Ext

Related Facts

7	Complete the	calculations	and label the	har	model he	low
<i>'</i> .	Complete me	Calculations	and label me	Dai	model be	ow.





VF HW/Ext

8. Complete each calculation and match it to the inverse.

公

HW/Ext

9. Rex and Ruth are looking at the digit cards below.

Rex says,



17

9

8

Ruth says,

I can write 2
subtractions and 2
additions using the digit
cards.

I can write 1 subtraction and 1 addition using the digit cards.



Who is correct? Explain your answer.



RPS HW/Ext

Homework/Extension Related Facts

Developing

- 1. A. $\underline{5} + 9 = 14$; B. $9 + 5 = \underline{14}$; C. $14 \underline{9} = 5$; D. $\underline{14} 5 = 9$
- 2. A and 2; B and 1
- 3. Alina is correct, there are 4 calculations: 5 + 8 = 13, 8 + 5 = 13, 13 5 = 8, 13 8 = 5.

Expected

4. A. 9 + 7 = 16; B. 7 + 9 = 16; C. 16 - 9 = 7; D. 16 - 7 = 9

<u>16</u>	
9	7

- 5. A and 2; B and 1; C and 3
- 6. Ben is correct, there are 4 calculations: 6 + 7 = 13, 7 + 6 = 13, 13 7 = 6, 13 6 = 7.

Greater Depth

7. A. 4 + 8 = 12; B. 8 + 4 = 12; C. 12 - 8 = 4; D. 12 - 4 = 8



- 8. A. $\underline{7}$ + 6 = 13 and 1. $\underline{13}$ 7 = 6; B. 11 + 7 = $\underline{18}$ and 3. 18 $\underline{11}$ = 7; C. 4 + $\underline{12}$ = 6 and 2. $\underline{16}$ 4 = 12
- 9. Rex is correct, the 2 subtractions are 17 9 = 8 and 17 8 = 9 and the 2 additions are 9 + 8 = 17 and 8 + 9 = 17.