

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.

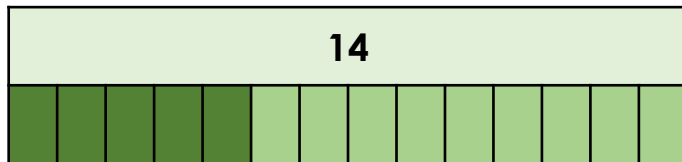
Greater Depth Explain which statement is correct when recognising related facts. Digit cards provided to support.

More [Year 1 Addition and Subtraction](#) resources.

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

Related Facts

1. Complete the calculations using the bar model below.



A. $\square + 9 = 14$

B. $9 + 5 = \square$

C. $14 - \square = 5$

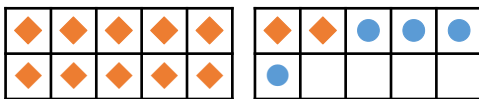
D. $\square - 5 = 9$



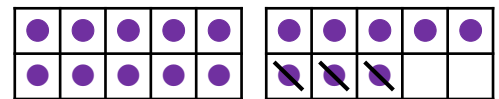
VF
HW/Ext

2. Match each calculation to the inverse.

A. $12 + 4 = 16$



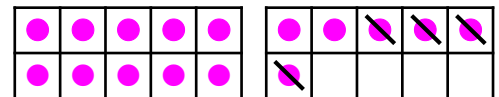
1. $18 - 3 = 15$



B. $15 + 3 = 18$



2. $16 - 4 = 12$



VF
HW/Ext

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



Max says,



I can write 2 calculations about the fruit.

Alina says,



I can write 4 calculations about the fruit.

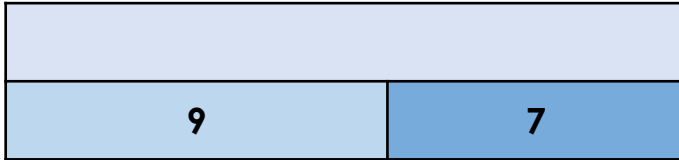
Who is correct? Explain your answer.



RPS
HW/Ext

Related Facts

4. Complete the calculations and the bar model below.



A. $\square + \square = 16$

B. $7 + \square = \square$

C. $\square - 9 = \square$

D. $16 - \square = \square$



VF
HW/Ext

5. Match each calculation to the inverse.

A. $9 + 7 = 16$

B. $6 + 8 = 14$

C. $9 + 5 = 14$

1. $14 - 8 = 6$

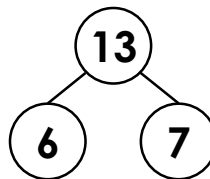
2. $16 - 7 = 9$

3. $14 - 5 = 9$



VF
HW/Ext

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



Jess says,



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

Ben says,



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

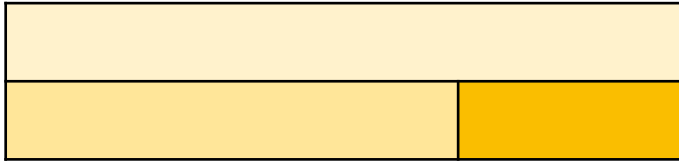
Who is correct? Explain your answer.



RPS
HW/Ext

Related Facts

7. Complete the calculations and label the bar model below.



A. $4 + \square = \square$

B. $\square + \square = 12$

C. $\square - 8 = \square$

D. $12 - \square = \square$



VF
HW/Ext

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

A. $\square + 6 = 13$

B. $11 + 7 = \square$

C. $4 + \square = 16$

1. $\square - 7 = 6$

2. $\square - 4 = 12$

3. $18 - \square = 7$



VF
HW/Ext

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

17

9

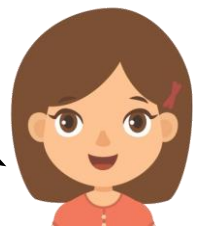
8

Rex says,



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

Ruth says,



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. $\underline{9} + \underline{7} = 16$; B. $7 + \underline{9} = \underline{16}$; C. $\underline{16} - 9 = \underline{7}$; D. $16 - \underline{7} = \underline{9}$

<u>16</u>	
<u>9</u>	<u>7</u>

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. $\underline{4} + \underline{8} = \underline{12}$; B. $\underline{8} + \underline{4} = 12$; C. $\underline{12} - 8 = \underline{4}$; D. $12 - \underline{4} = \underline{8}$

<u>12</u>	
<u>8</u>	<u>4</u>

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 $8 + 9 = 17$.