

Homework/Extension

Add by Counting On Within 20

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 $7 = \square - 9$

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Join matching pairs in order to add two 1-digit numbers or a 1-digit and a 2-digit number by counting on. Numerals only. Pictorial support (number pieces).

Expected Join matching pairs in order to add two 1-digit numbers or a 1-digit and a 2-digit number by counting on. Numerals only. Pictorial support (Base 10).

Greater Depth Join matching pairs in order to add two 1-digit numbers or a 1-digit and a 2-digit number by counting on. Numerals and words. Number lines, with some unmarked divisions.

Questions 2, 5 and 8 (Varied Fluency)

Developing Circle the incorrect calculation. Adding two 1-digit numbers or a 1-digit and a 2-digit number by counting on. Numerals only. Pictorial support.

Expected Circle the incorrect calculation. Adding two 1-digit numbers or a 1-digit and a 2-digit number by counting on. Numerals only. Pictorial support, including bar models and number lines.

Greater Depth Circle the incorrect calculation. Adding two 1-digit numbers or a 1-digit and a 2-digit number by counting on. Numerals and words. Number lines, with some unmarked divisions.

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


Developing Work out scores by adding two 1-digit numbers or a 1-digit and a 2-digit number by counting on and explain which score is the highest. Numerals only. Pictorial support (number tracks).

Expected Work out scores by adding two 1-digit numbers or a 1-digit and a 2-digit number by counting on and explain which score is the highest. Numerals only. Pictorial support (number line).


Greater Depth Work out scores by adding two 1-digit numbers or a 1-digit and a 2-digit number by counting on and explain which score is the highest. Number words. Pictorial support (number line with unmarked divisions).

Add by Counting On Within 20


1. Match each image to a calculation and complete by counting on.

A.  +

D. $9 + 6 =$

B.  +

E. $10 + 3 =$

C.  +


F. $7 + 5 =$




VF
HW/Ext

2. Circle the one that is incorrect.


A.

17	
12	


B.

 + $= 15$

C.

 + $= 16$

D.

16	
13	



VF
HW/Ext

3. Tom and Alex are playing a board game.



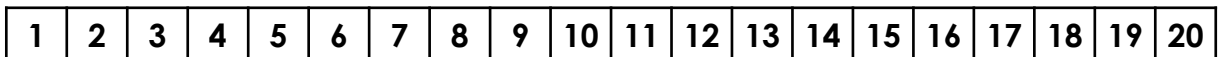
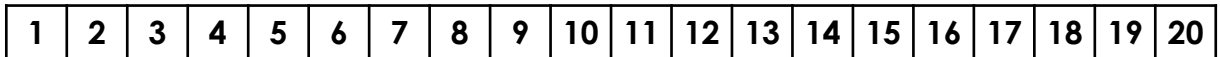
Tom

I was on 12.
I have rolled a 5.



Alex

I was on 9.
I have rolled a 6.





Use the number lines to work out who is in the lead. Explain your answer.




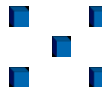
RPS
HW/Ext

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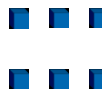
4. Match each image to a calculation and complete by counting on.

A.  + 

D. $13 + 5 = \square$

B.  + 

E. $12 + 4 = \square$

C.  + 

F. $11 + 6 = \square$

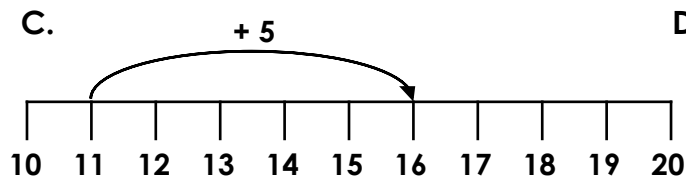
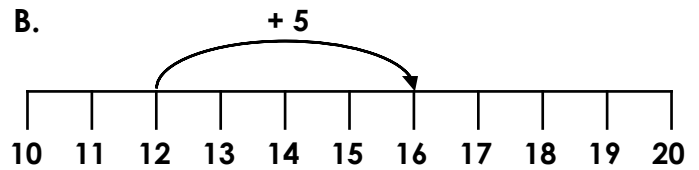


VF
HW/Ext

5. Circle the one that is incorrect.

A.

18	
11	7



D.


17	
14	3

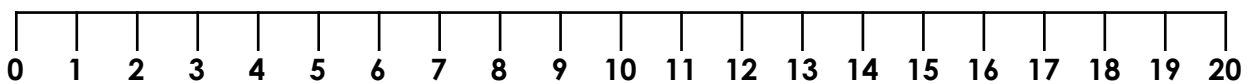


VF
HW/Ext

6. Beth and Sam are playing a board game.


Beth: I was on 9. I have rolled a 5.


Sam: I was on 7. I have rolled a 6.



Use the number line to work out who is in the lead. Explain your answer.



RPS
HW/Ext

Add by Counting On Within 20

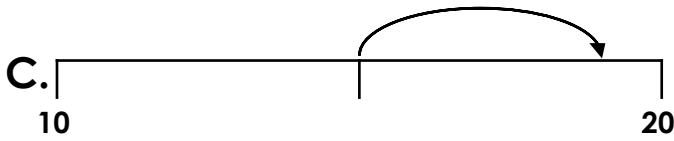
7. Count on to find the totals then join the matching pairs.



D. $12 + 6 = \square$



E. $15 + 4 = \square$



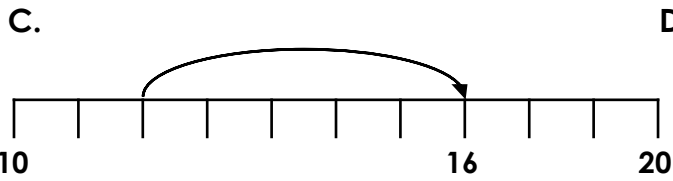
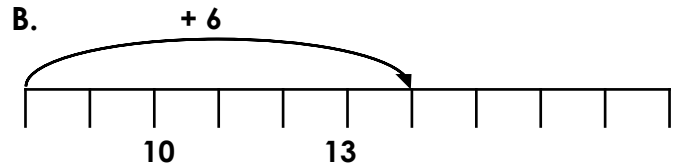
F. $\text{nine} + \text{eight} = \square$



VF
HW/Ext

8. Circle the one that is incorrect.

A. twelve count on seven = nineteen



D. eleven + seven = eighteen



VF
HW/Ext

9. Charlie and Tariq are playing a board game.



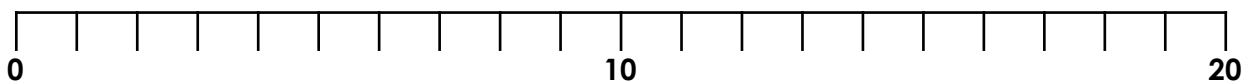
Charlie

I was on nine.
I have rolled a five.



Tariq

I was on eight.
I have rolled a six.



Use the number line to work out who is in the lead. Explain your answer.



RPS
HW/Ext

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Developing

1. **A and E, $10 + 3 = 13$, B and F, $7 + 5 = 12$, C and D, $9 + 6 = 15$**
2. **C**
3. **12 count on 5 is 17 and 9 count on 6 is 15 so Tom is in the lead.**

Expected

4. **A and E, $12 + 4 = 16$, B and D, $13 + 5 = 18$, C and F, $11 + 6 = 17$.**
5. **B**
6. **9 count on 5 is 14 and 7 count on 6 is 13 so Beth is in the lead.**

Greater Depth

7. **A and F, nine + eight = 17, B and D, $12 + 6 = 18$, C and E, $15 + 4 = 19$**
8. **C**
9. **9 count on 5 is 14 and 8 count on 6 is 14 so Charlie and Tariq are joint leaders.**