## Year 2 and Year 3 Addition and Subtraction Unit 1 (23158)

#### Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Y2 Addition and subtraction Sheet 1 Working towards ARE

Day 1 Y2 Addition and subtraction Sheet 2 Working at ARE

Day 1 Y2 Addition and subtraction Sheet 3 Greater Depth

Day 1 Y3 Balancing the scales Sheet 4 Working towards ARE

Day 1 Y3 Making 14 and 15 Sheet 5 Working at ARE

Day 1 Y3 Making 16, 17, 18, 19 and 20 Sheet 6 Greater Depth

Day 2 Y2 Pairs to 10 and 20 Sheet 1 Working towards ARE

Day 2 Y2 Pairs to 20 Sheet 2 Working at ARE

Day 2 Y2 Pairs to 20 Sheet 3 Greater Depth

#### Day 2 Y3 Multiples of 5: pairs to 100 Sheet 4

Working towards ARE / Working at ARE / Greater Depth Working towards ARE complete Set A using a 0-100 beaded line (see resources) for reference. Working at ARE complete Set A then Set B. Use landmarked line (see resources) for reference for Set B. Greater Depth complete Set A then Set B.

Day 3 Y2 Pairs to 10 and 20 Sheet 1 Working towards ARE

Day 3 Y2 Pairs to 20 Sheet 2 Working at ARE

## Year 2 and Year 3 Addition and Subtraction Unit 1 (23158)

### Additional teacher instructions for practice sheets continued

These notes indicate which practice sheets are most appropriate for which groups.

Day 3 Y2 Missing numbers Sheet 3 Greater Depth

Day 3 Y3 Missing numbers Sheet 4 Working towards ARE

Day 3 Y3 Missing numbers Sheet 5 Working at ARE

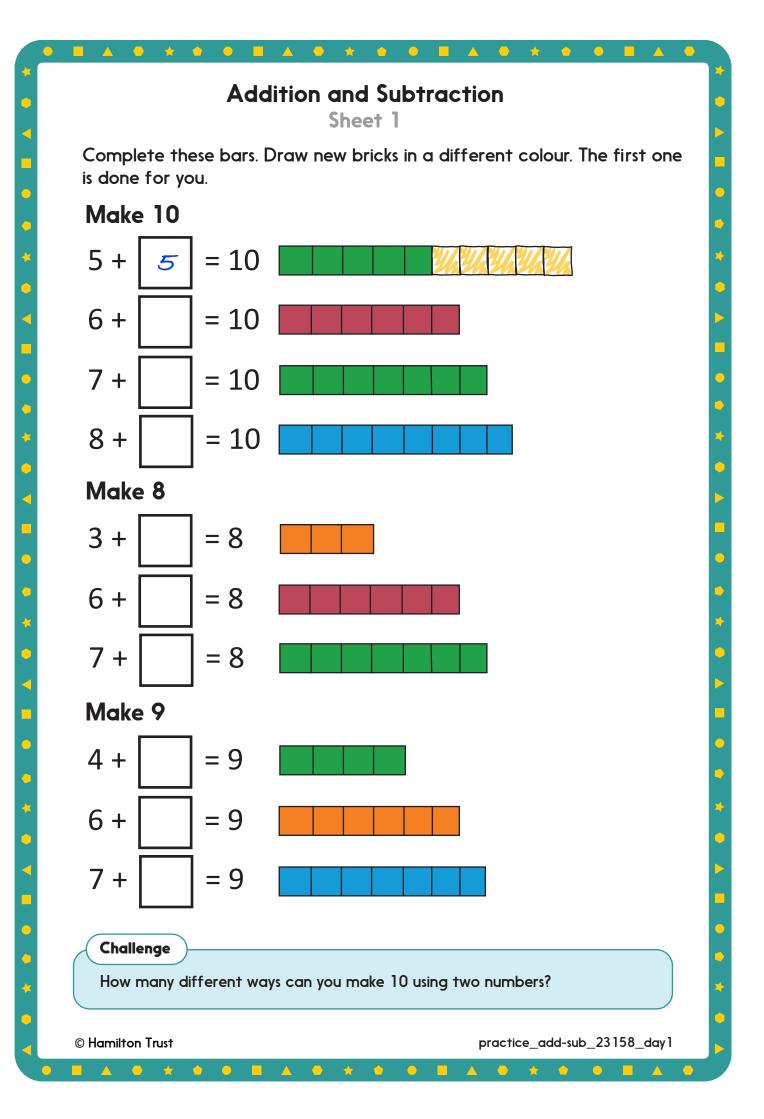
Day 3 Y3 Missing numbers Sheet 6 Greater Depth

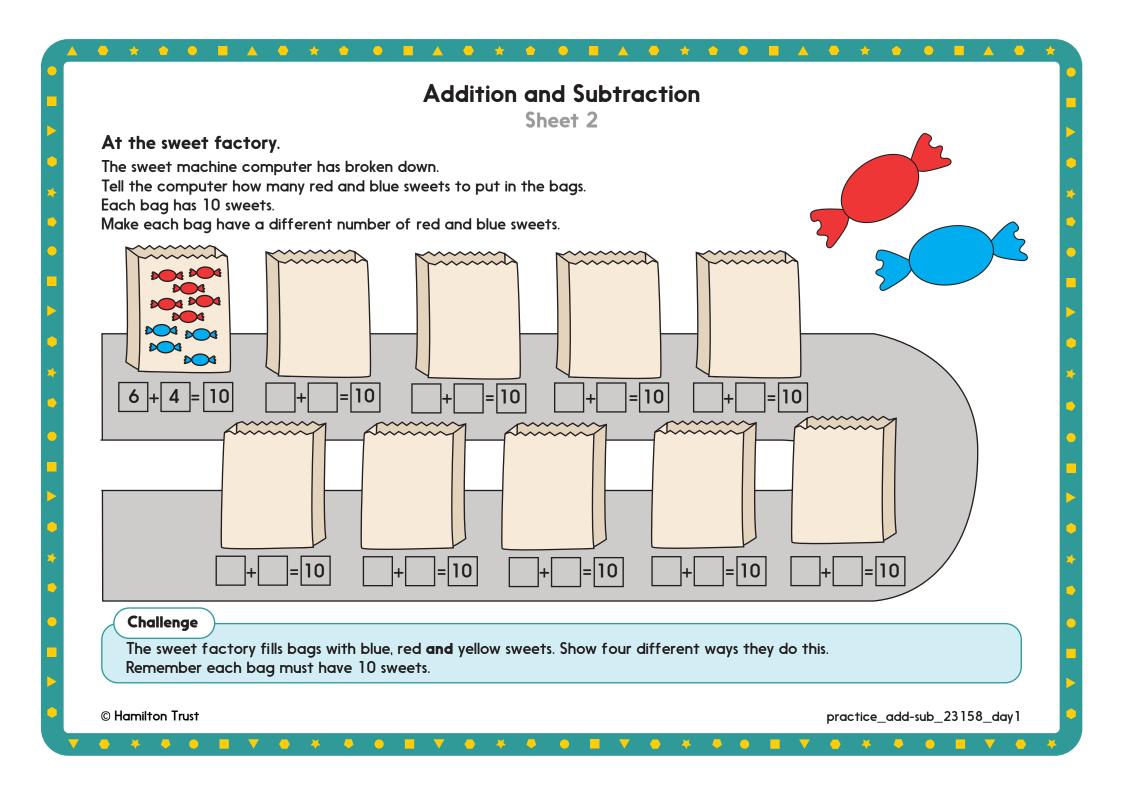
Day 4 Y2 Mystery numbers Sheet 1 Working towards ARE

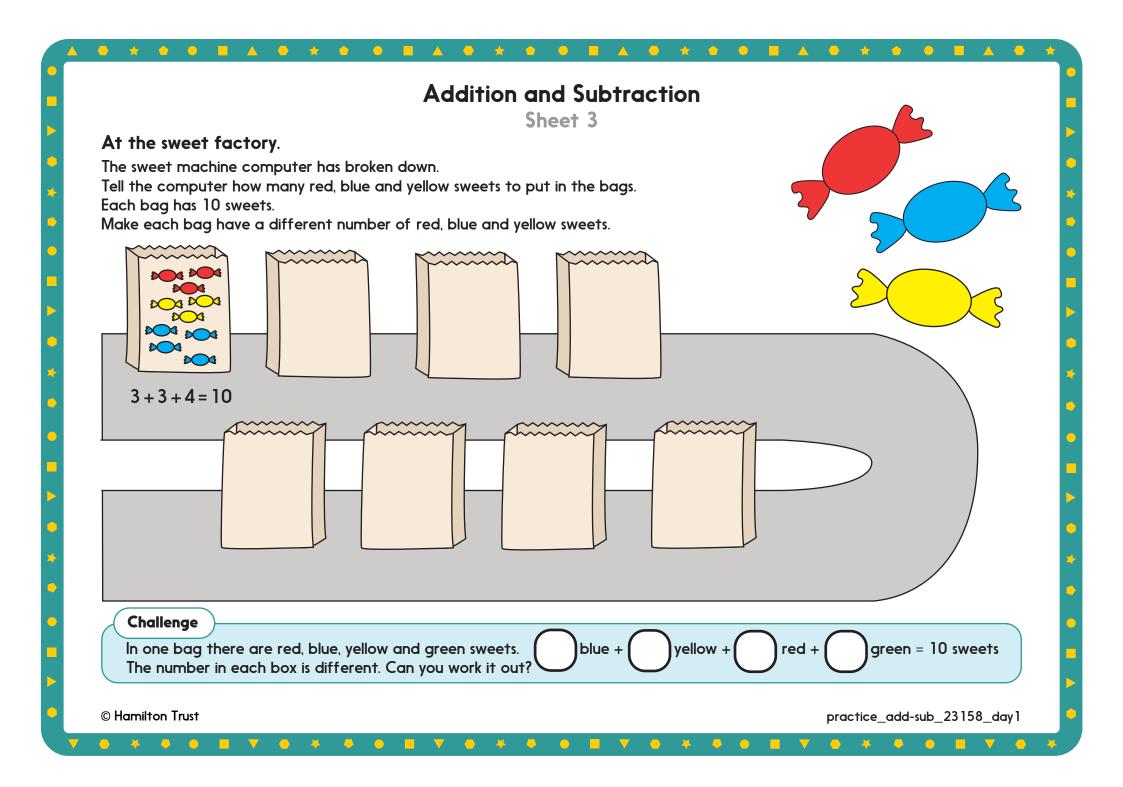
Day 4 Y2 Missing numbers Sheet 2 Working at ARE / Greater Depth

Day 4 Y3 Triangles Sheet 3 Working towards ARE / Working at ARE

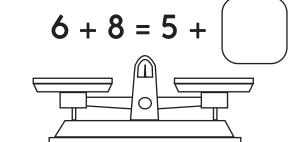
Day 4 Y3 Triangles Sheet 4 Greater Depth

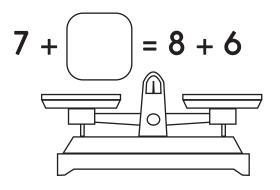


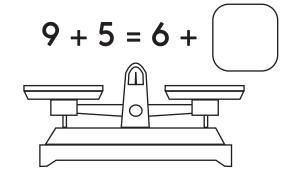


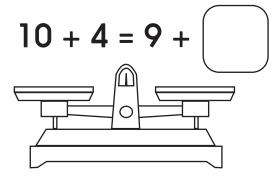


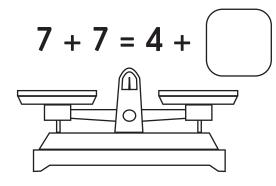
# **Balance the scales** Sheet 4

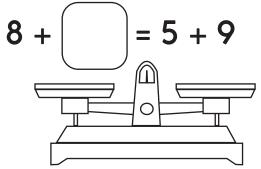


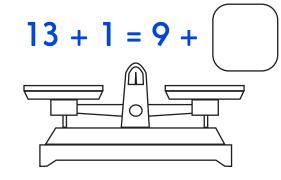






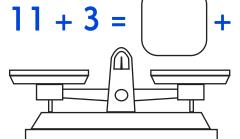


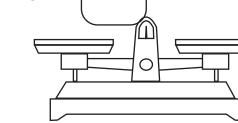


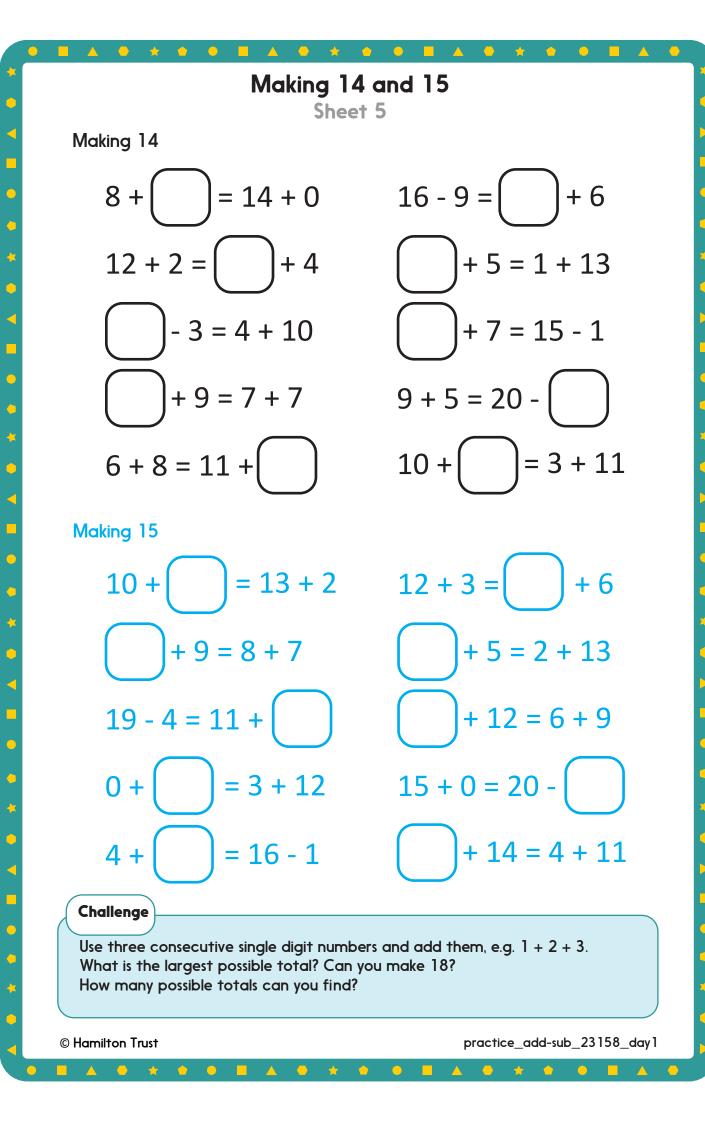


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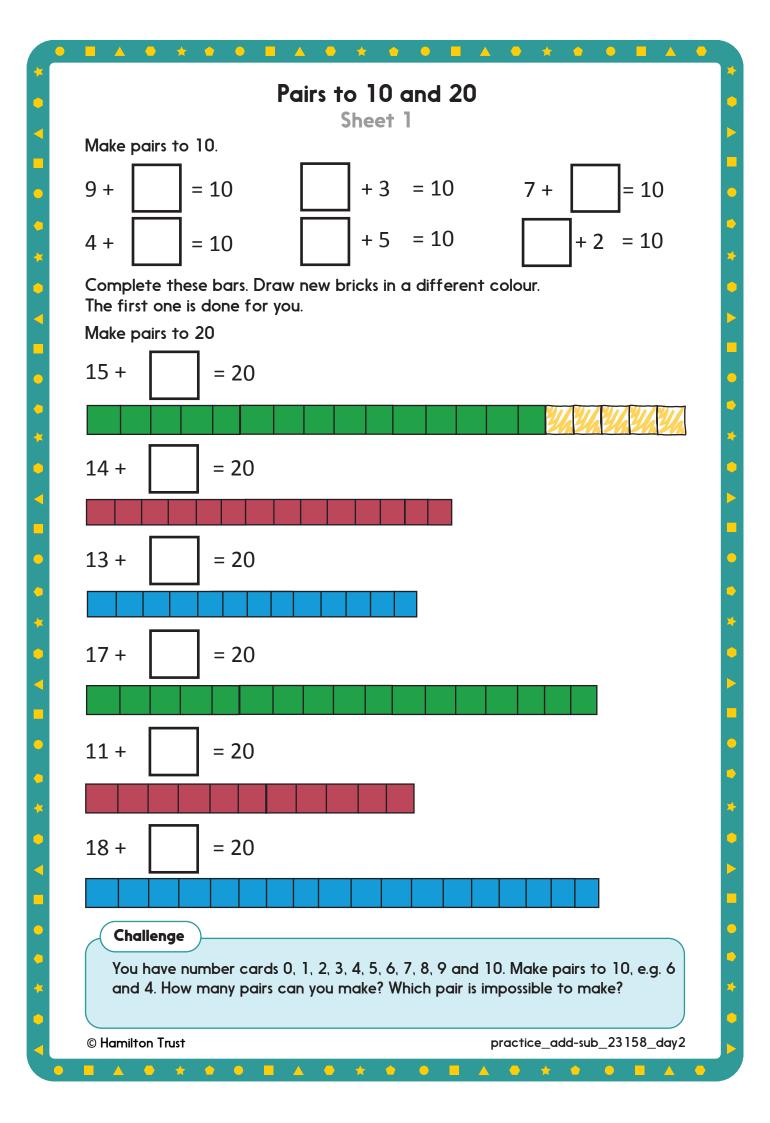
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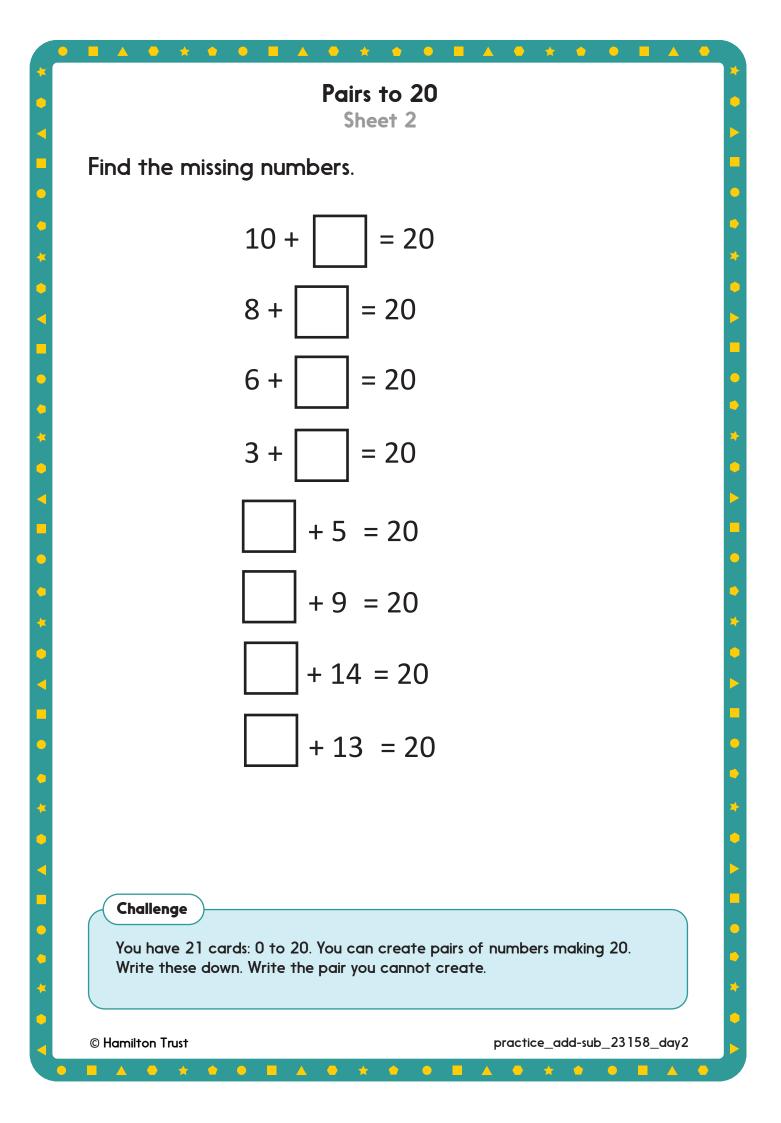
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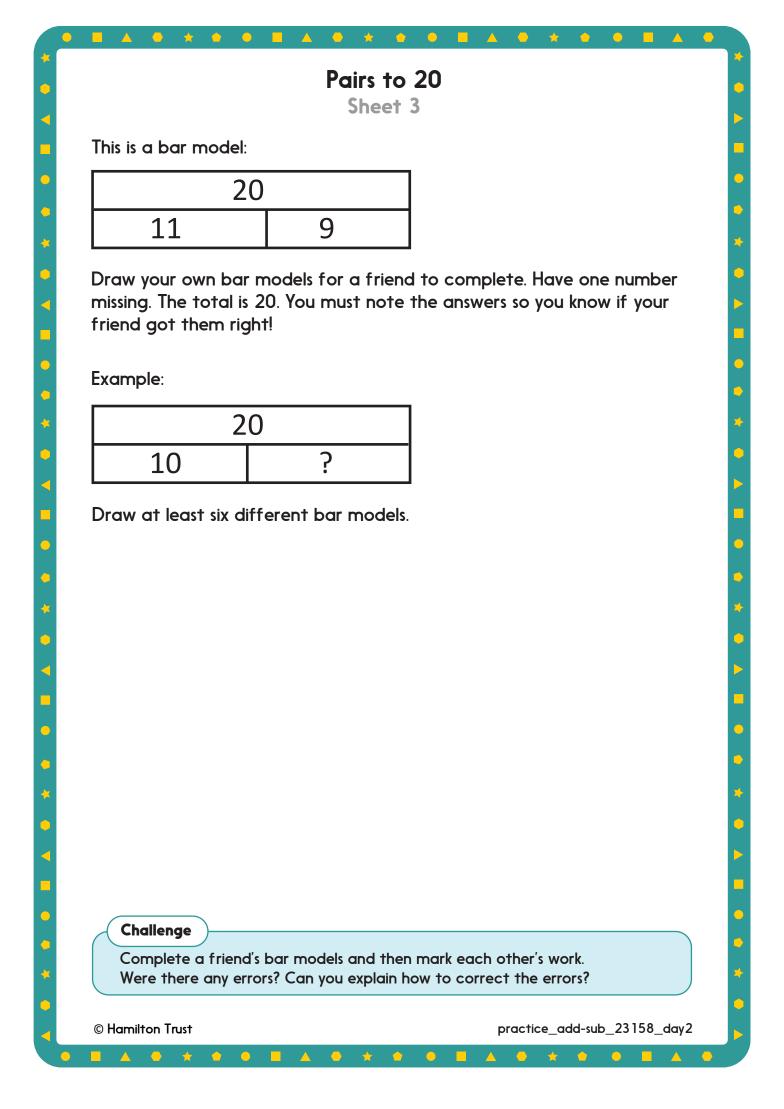
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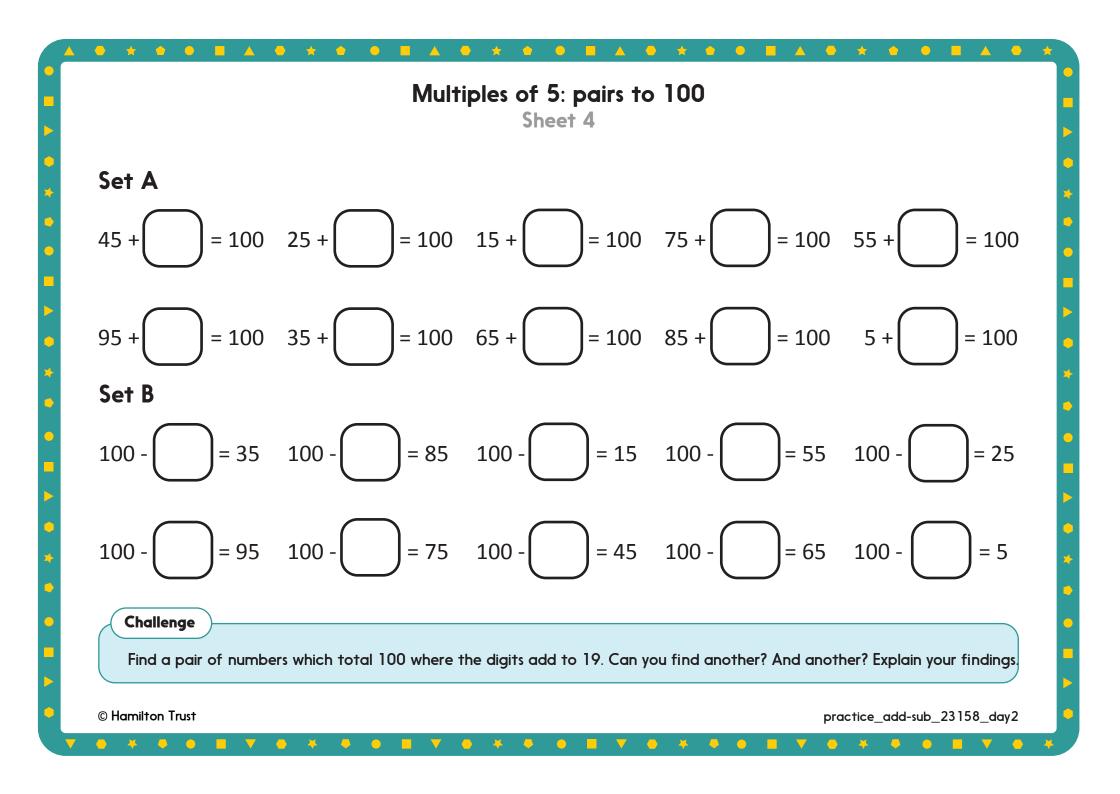
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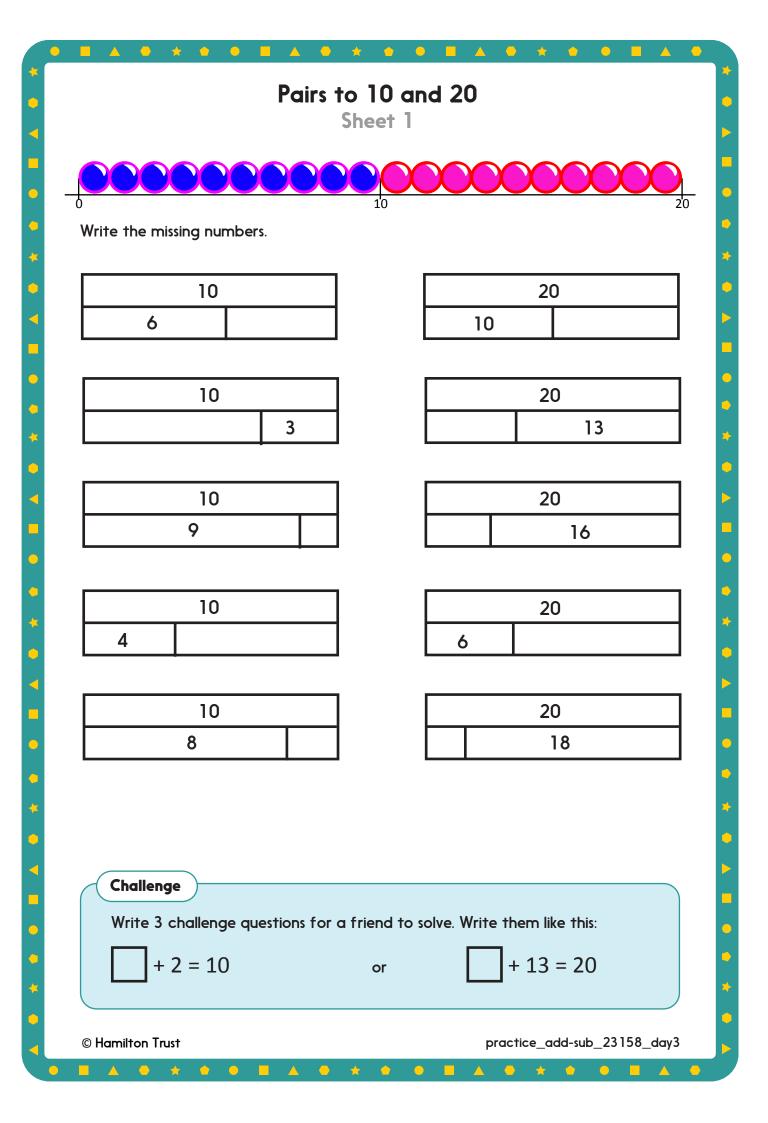
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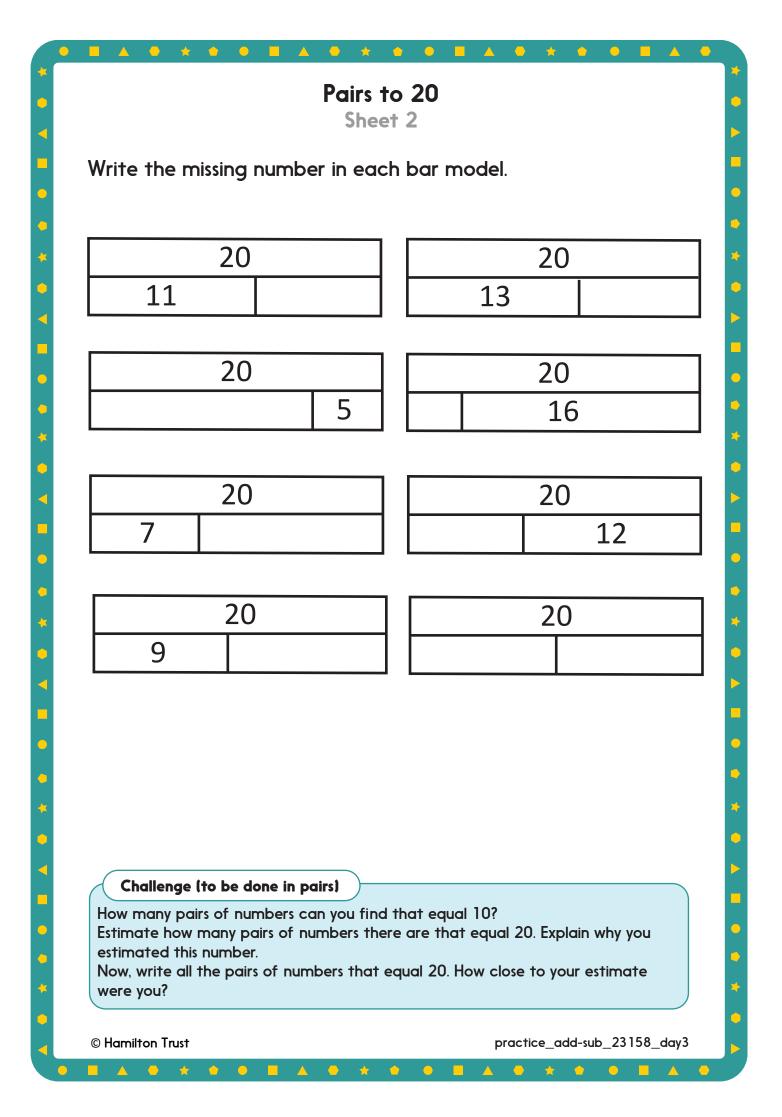








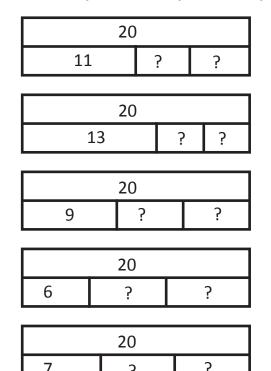




## Missing numbers

Sheet 3

Write the pairs of possible missing numbers. How many different pairs can you find for each problem?



<i>'</i>	:	·
	20	
8	?	?

### Challenge

Complete the table below to find the missing numbers.

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Numbers to add			Total
5		3	20
	4	12	20
13	2		20
7		5	20
	8	6	20
11	3		20
5		9	20

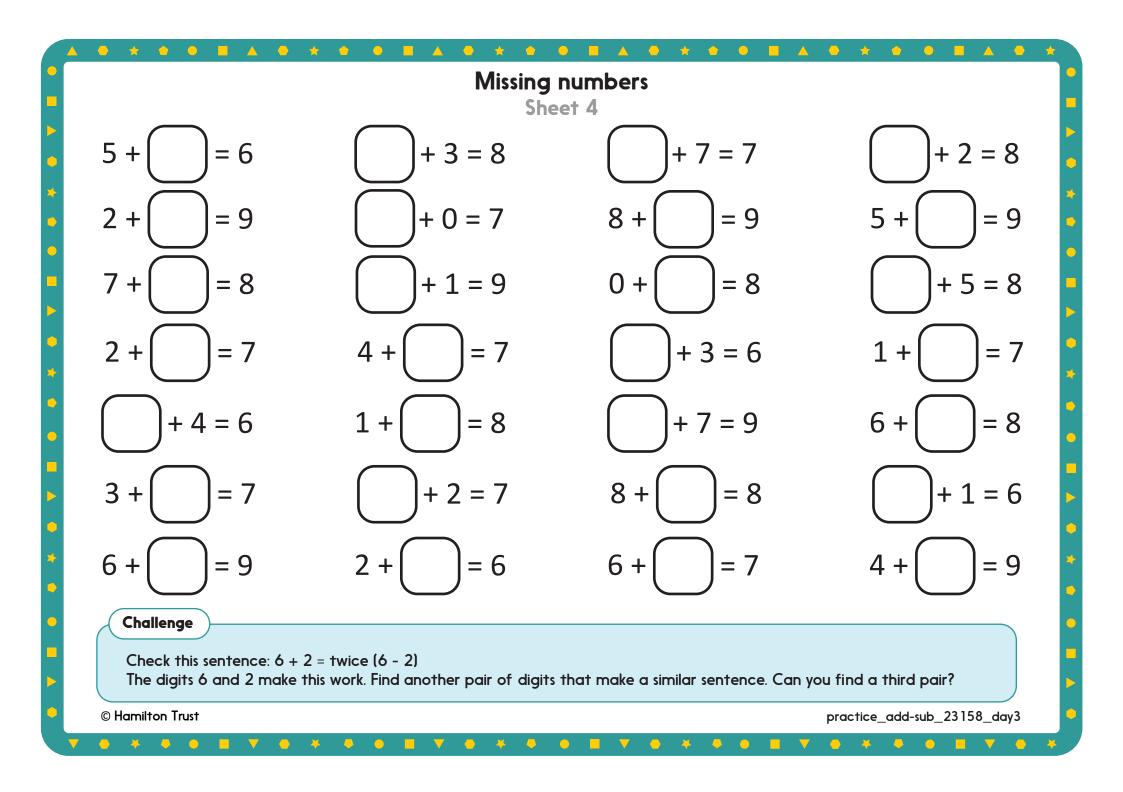
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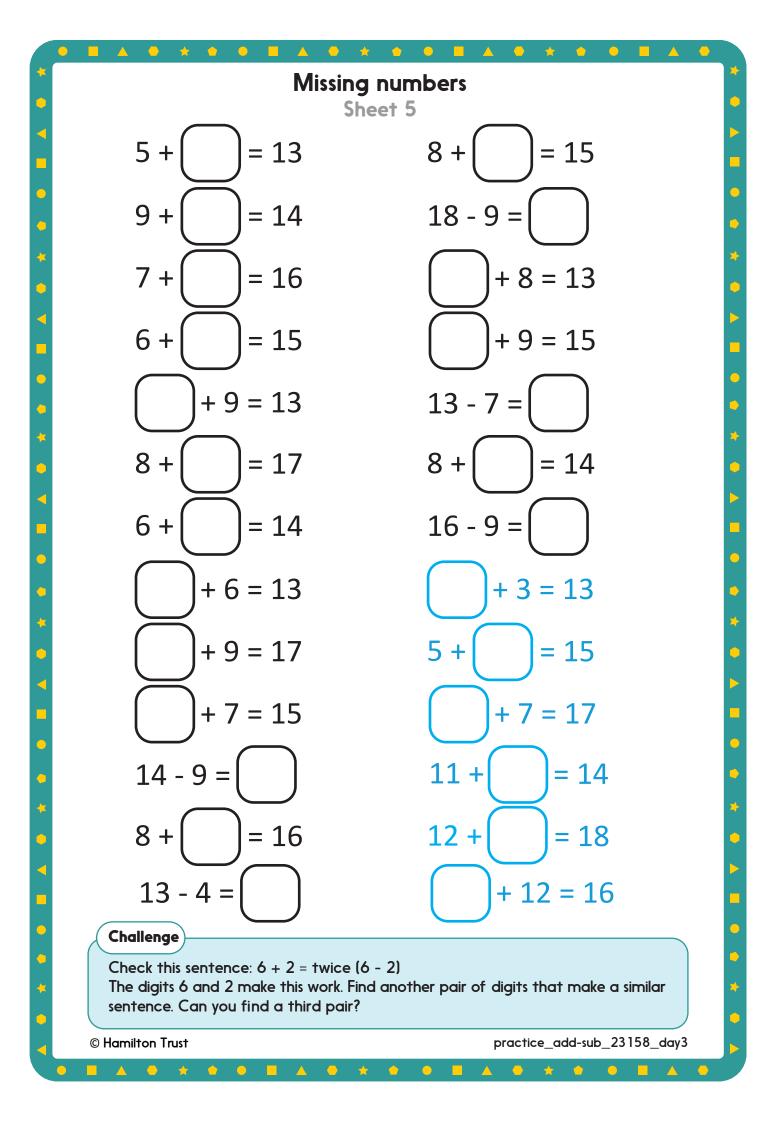
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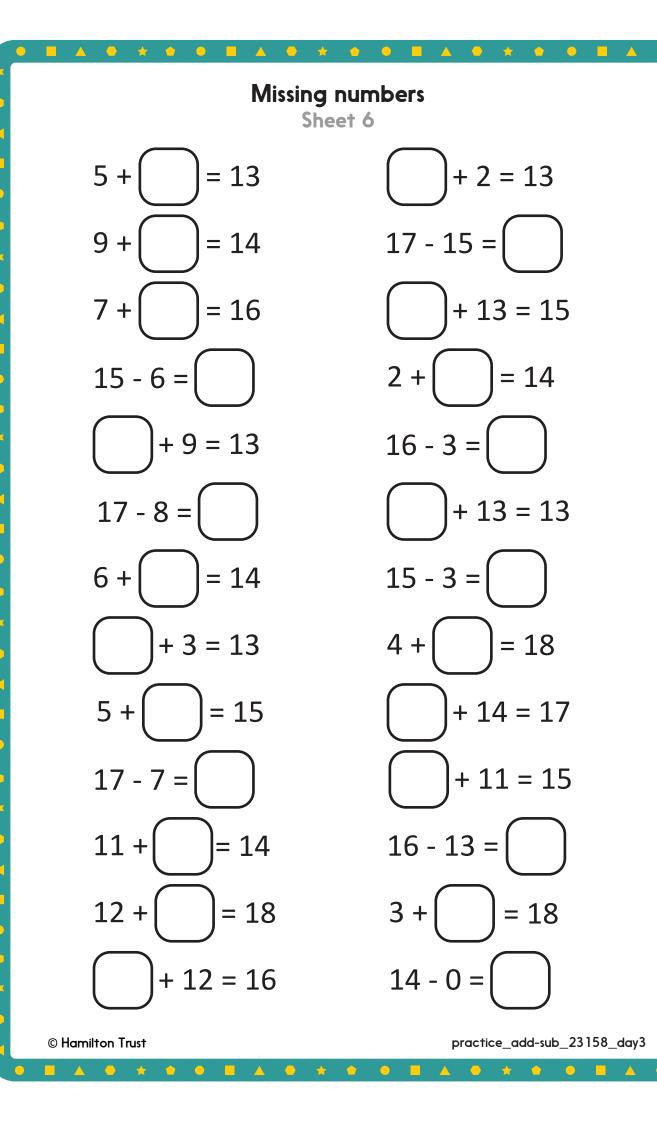
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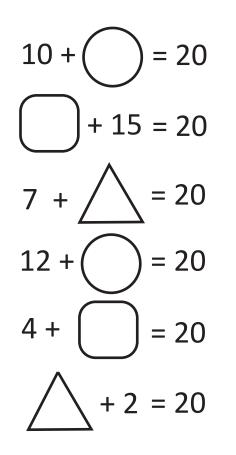


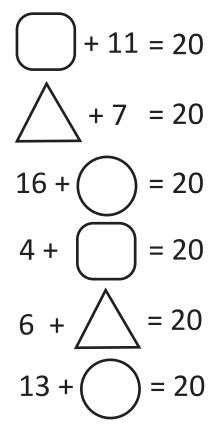




### Mystery numbers Sheet 1

Find the mystery numbers.

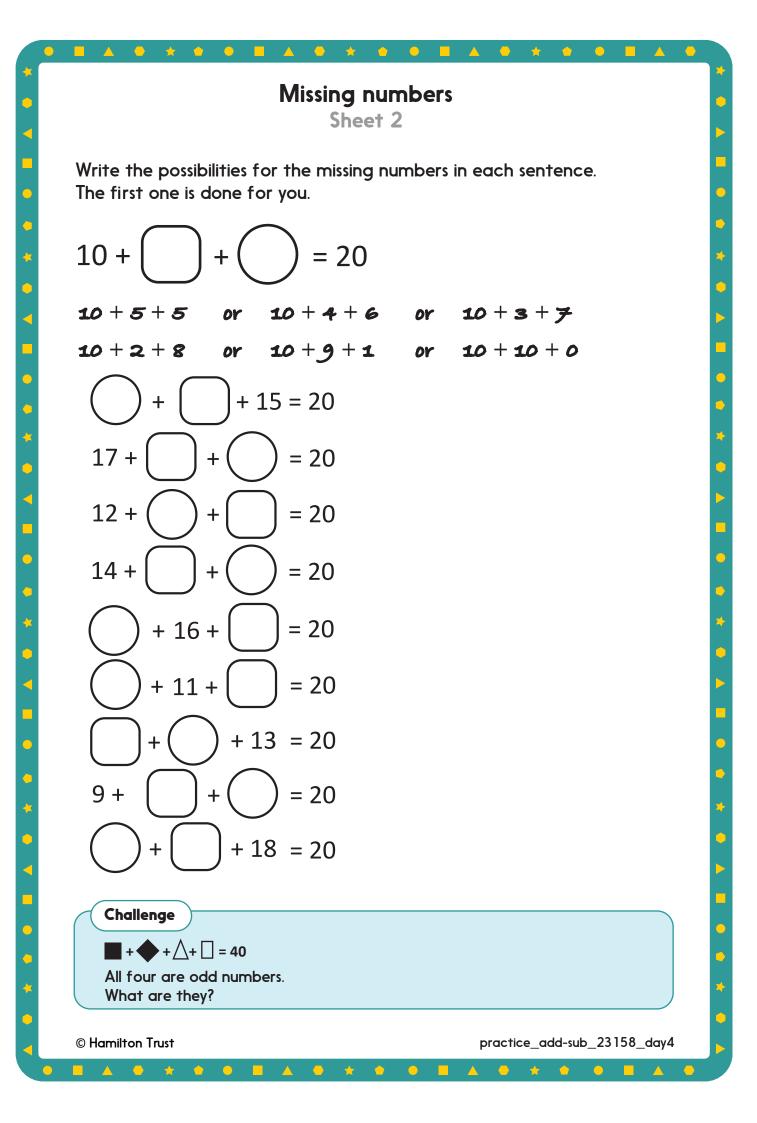


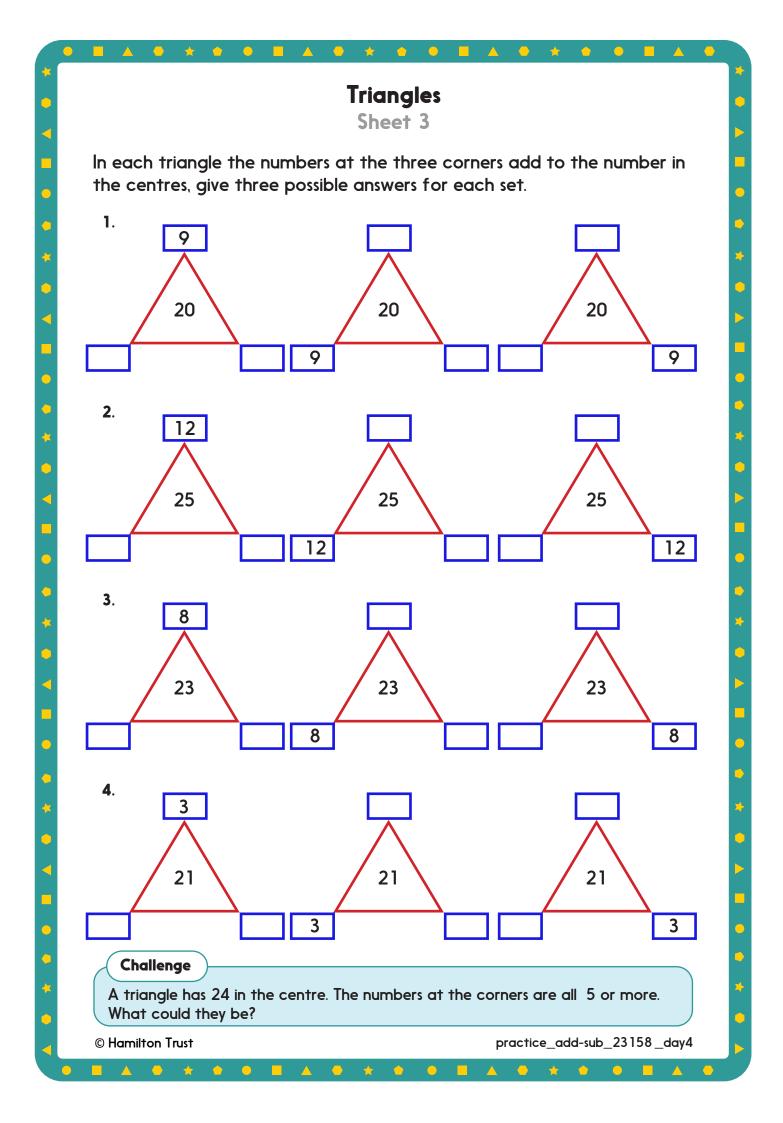


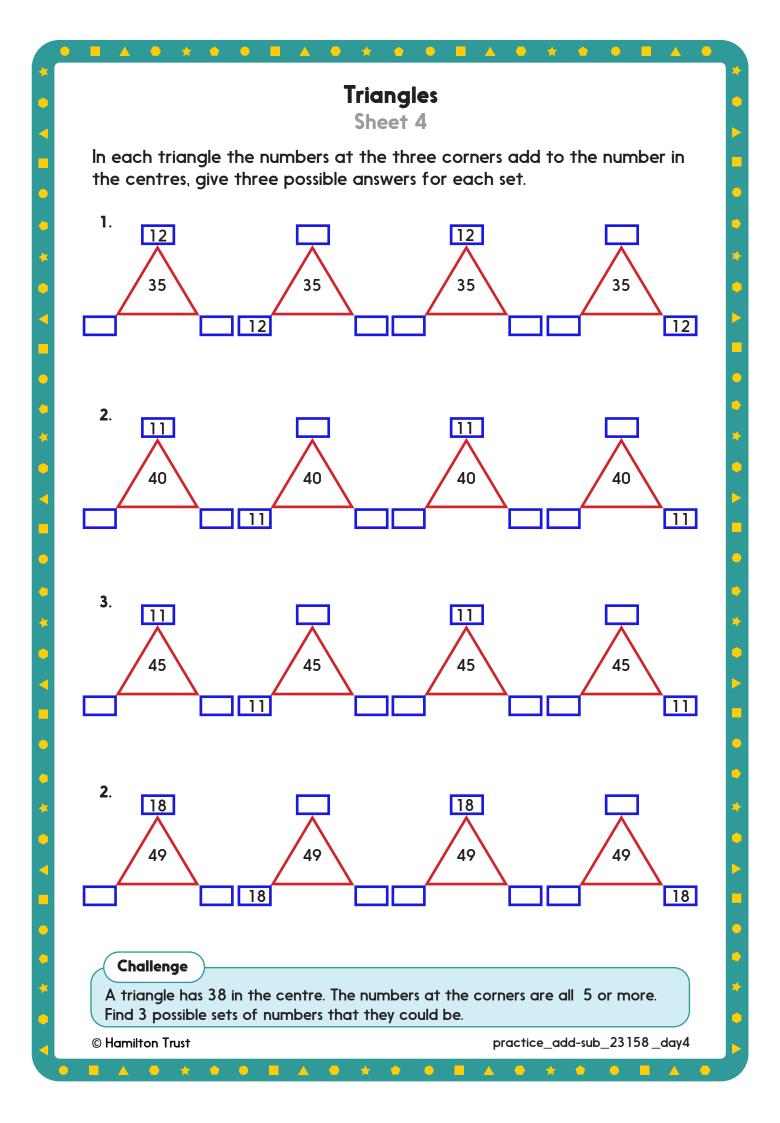
Challenge

Circle the correct sums below:

3 + 7 = 20	14 + 4 = 20
12 + 8 = 20	13 + 7 = 20
19 + 2 = 20	12 + 18 = 20
15 + 5 = 20	







## Addition and Subtraction

Answers

#### Day 1 Y2 Addition and Subtraction Sheet 1

5+5=10 3+5=8 4+5=96+4=10 6+2=8 6+3=97+3=10 7+1=8 7+2=98+2=10

#### Challenge

There are five ways to make 10 using 2 numbers (1 + 9, 2 + 8, 3 + 7, 4 + 6 and 5 + 5), or six ways if you include 0 + 10.

#### Day 1 Y2 Addition and Subtraction Sheet 2

6 + 4 = 10	<b>0</b> + 10 = 10	<b>1 + 9</b> = 10	<mark>2 + 8</mark> = 10
<b>3</b> + <b>7</b> = 10	<b>4 + 6</b> = 10	<b>7 + 3</b> = 10	<mark>8 + 2</mark> = 10
<b>9</b> + <b>1</b> = 10	<mark>10 + 0</mark> = 10		

There are only enough bags for the children to record nine of the possible ten solutions given here.

 Challenge

 Accept answers where children have used 3 numbers to give at total of 10, e.g.

 1+2+7
 2+3+5
 3+4+3
 4+5+1
 5+1+4
 6+2+2

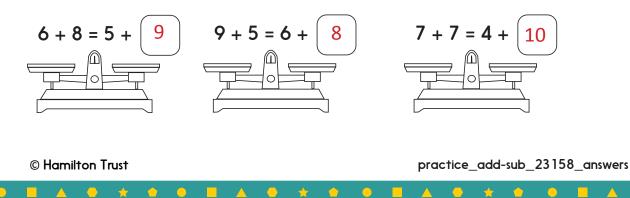
 7+2+1
 8+1+1
 and so on...

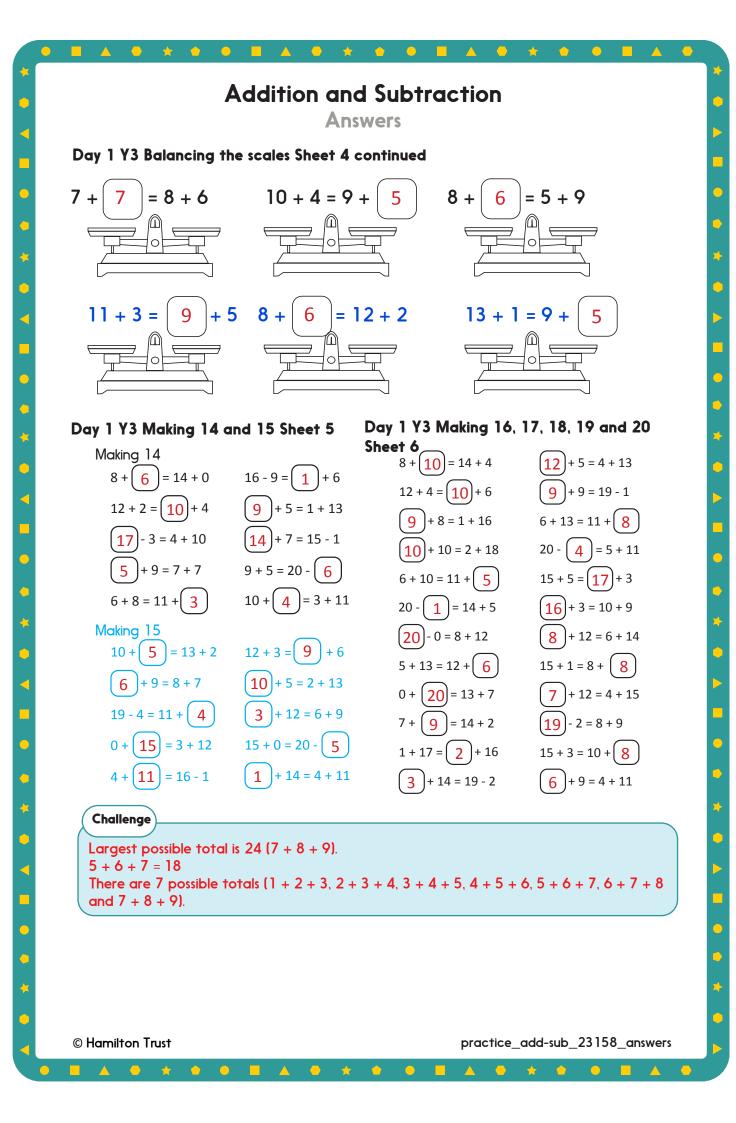
#### Day 1 Y2 Addition and Subtraction Sheet 3

In any order: 1 + 1 + 8 1 + 2 + 7 1 + 3 + 6 1 + 4 + 5 2 + 2 + 6 2 + 3 + 5 2 + 4 + 4 3 + 3 + 4

Challenge In any colour order: 1 + 2 + 3 + 4

#### Day 1 Y3 Balancing the scales Sheet 4





$\begin{array}{c} + 6 = 10 \\ 5 + 5 = 20 \\ 4 + 6 = 20 \\ 3 + 7 = 20 \\ 7 + 3 = 20 \end{array}$			and Subtraction Answers
$\begin{array}{c} + 6 = 10 \\ 5 + 5 = 20 \\ 4 + 6 = 20 \\ 3 + 7 = 20 \\ 7 + 3 = 20 \\ 1 + 9 = 20 \\ 3 + 2 = 20 \end{array}$ Challenge O + 10 Children may also present the numbers in a different order e.g 10 + 0. 1 + 9 \\ 2 + 8 \\ You cannot make the pair 5 + 5, because you only have one 5 card. 6 + 4	ay 2 Y2 Pair	s to 10 and 20 Shee	et 1
<ul> <li>4 + 6 = 20</li> <li>3 + 7 = 20</li> <li>7 + 3 = 20</li> <li>1 + 9 = 20</li> <li>3 + 2 = 20</li> <li>Challenge</li> <li>0 + 10 Children may also present the numbers in a different order e.g 10 + 0.</li> <li>1 + 9</li> <li>2 + 8 You cannot make the pair 5 + 5, because you only have one 5 card.</li> <li>6 + 4</li> </ul>	+ 1 = 10 + 6 = 10		
<ul> <li>7 + 3 = 20</li> <li>1 + 9 = 20</li> <li>3 + 2 = 20</li> <li>Challenge</li> <li>0 + 10 Children may also present the numbers in a different order e.g 10 + 0.</li> <li>1 + 9</li> <li>2 + 8 You cannot make the pair 5 + 5, because you only have one 5 card.</li> <li>6 + 4</li> </ul>	5 + 5 = 20 4 + 6 = 20 3 + 7 = 20		
Challenge         0 + 10       Children may also present the numbers in a different order e.g 10 + 0.         1 + 9       2 + 8         You cannot make the pair 5 + 5, because you only have one 5 card.         6 + 4	7 + <mark>3</mark> = 20 1 + <del>9</del> = 20		
<ul> <li>1 + 9</li> <li>2 + 8</li> <li>You cannot make the pair 5 + 5, because you only have one 5 card.</li> <li>6 + 4</li> </ul>	Challenge		
			-
	2 + 8 Yo		
	2 + 8 Yo 6 + 4 3 + 7	to 20 Sheet 2	
0 + 10 = 20 + 12 = 20	2 + 8 Yo 6 + 4 3 + 7 ay 2 Y2 Pairs 0 + 10 = 20	to 20 Sheet 2	
0 + 10 = 20 + 12 = 20 + 14 = 20 + 17 = 20	2 + 8  Yo 6 + 4 3 + 7  ay 2 Y2 Pairs 0 + 10 = 20 + 12 = 20 + 14 = 20	to 20 Sheet 2	

Challenge	)	
0 + 20	5 + 15	You cannot make the pair
1 + 19	6 + 14	10 + 10, because you only
2 + 18	7 + 13	have one 10 card.
3 + 17	8 + 12	
4 + 16	9 + 11	

### Day 2 Pairs to 20 Sheet 3

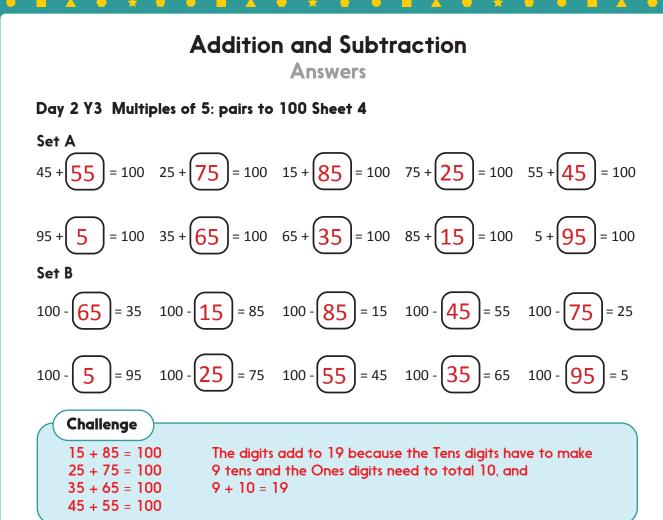
Bar models with numbers making 20. These could show any of the following pairs: 0, 20 1, 19 2, 18 3, 17 4, 16 5, 15 6, 14 7, 13 8, 12 9, 11 10, 10

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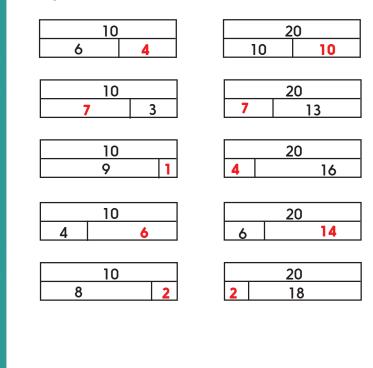
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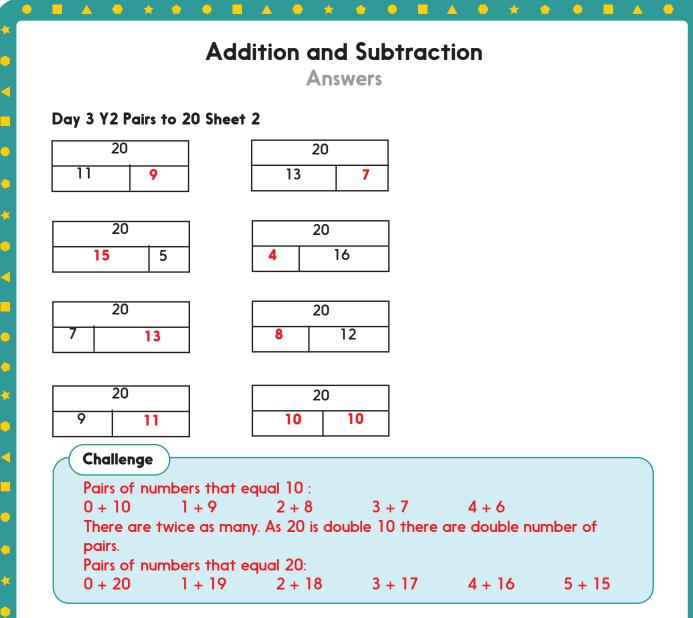
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#### Day 3 Y2 Pairs to 10 and 20 Sheet 1



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#### Day 3 Y2 Missing numbers Sheet 3

Bar models - accept any pairs of numbers making the totals needed to add to get to 20.

#### Challenge

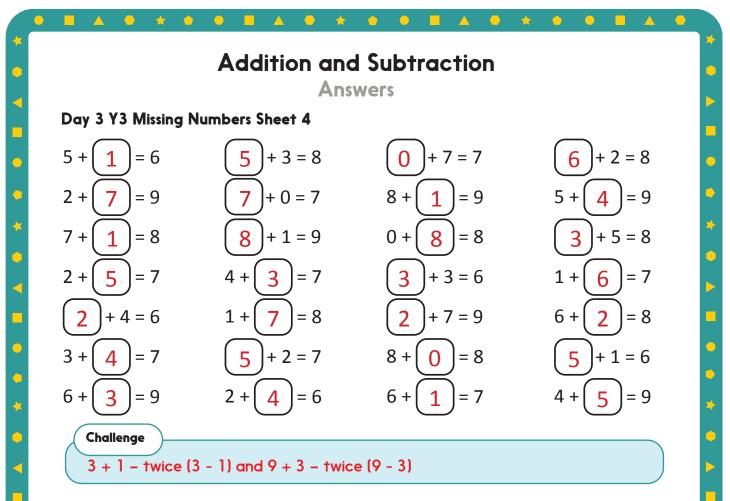
Complete the table below to find the missing numbers.

Numbers to add			Total
5	12	3	20
4	4	12	20
13	2	5	20
7	8	5	20
6	8	6	20
11	3	6	20
5	6	9	20

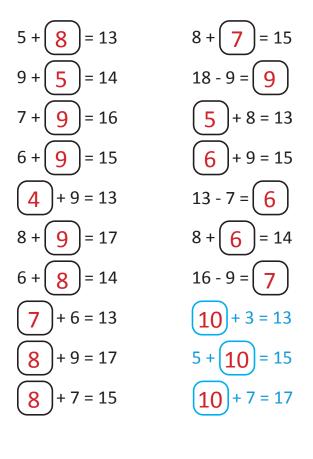
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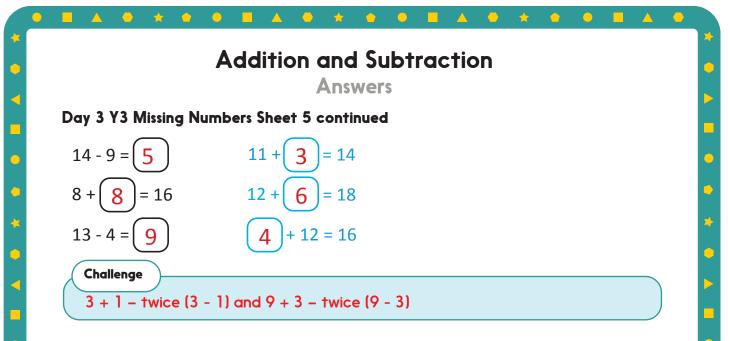
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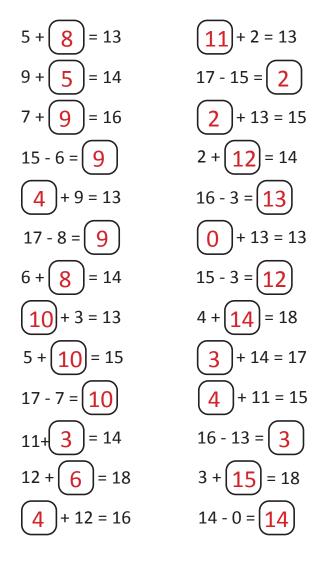
#### Day 3 Y3 Missing Numbers Sheet 5

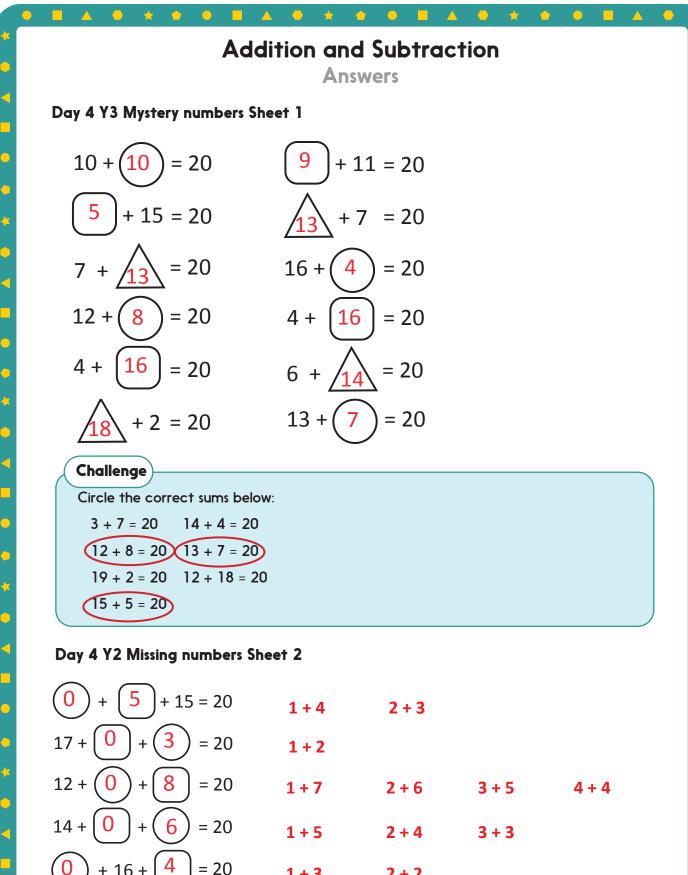


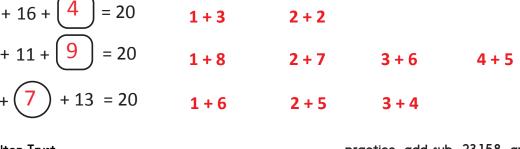
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#### Day 3 Y3 Missing Numbers Sheet 6







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