

Yr 2 Addition and Subtraction Unit 1 (2153)

Additional teacher instructions for practice sheets

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

Day 1 Addition and Subtraction Sheet 1

Working towards ARE

Day 1 Addition and Subtraction Sheet 2

Working at ARE

Day 1 Addition and Subtraction Sheet 3

Working at Greater Depth

Day 2 Pairs to 10 and 20 Sheet 1

Working towards ARE

Day 2 Pairs to 20 Sheet 2

Working at ARE

Day 2 Pairs to 20 Sheet 3

Working at Greater Depth

Day 3 Pairs to 10 and 20 Sheet 1

Working toward ARE

Day 3 Pairs to 20 Sheet 2

Working at ARE

Day 3 Missing numbers Sheet 3

Working at Greater Depth

Addition and Subtraction

Sheet 1


Complete these bars. Draw new bricks in a different colour. The first one is done for you.

Make 10


$5 + \boxed{5} = 10$ 


$6 + \boxed{} = 10$ 

$7 + \boxed{} = 10$ 

$8 + \boxed{} = 10$ 

Make 8

$3 + \boxed{} = 8$ 

$6 + \boxed{} = 8$ 

$7 + \boxed{} = 8$ 

Make 9

$4 + \boxed{} = 9$ 

$6 + \boxed{} = 9$ 

$7 + \boxed{} = 9$ 

Challenge

How many different ways can you make 10 using 2 numbers?

Addition and Subtraction

Sheet 2

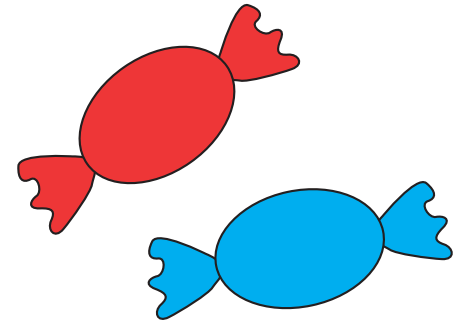
At the sweet factory.

The sweet machine computer has broken down.

Tell the computer how many red and blue sweets to put in the bags.

Each bag has 10 sweets.

Make each bag have a different number of red and blue sweets.



6 + 4 = 10 + = 10 + = 10 + = 10 + = 10

+ = 10 + = 10 + = 10 + = 10 + = 10

Challenge

The sweet factory fills bags with blue, red and yellow sweets. Show four different ways they do this. Remember each bag must have 10 sweets.

Addition and Subtraction

Sheet 3

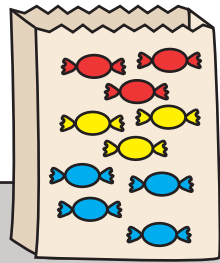
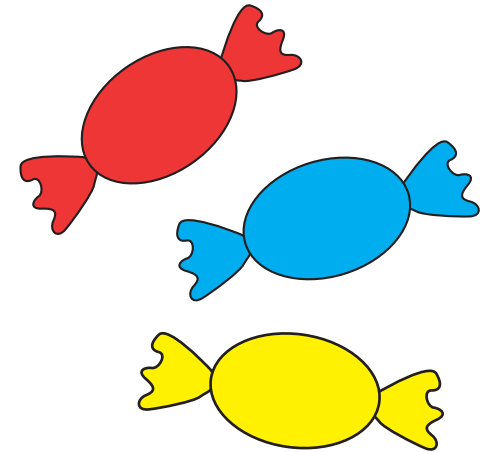
At the sweet factory.

The sweet machine computer has broken down.

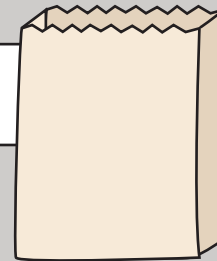
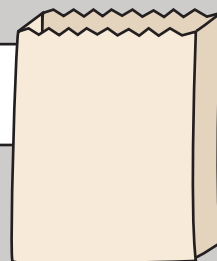
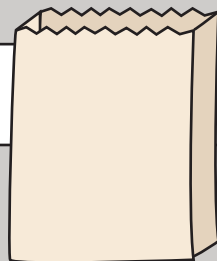
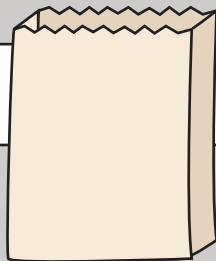
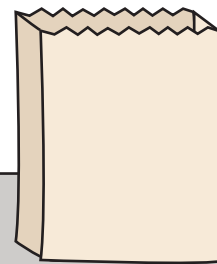
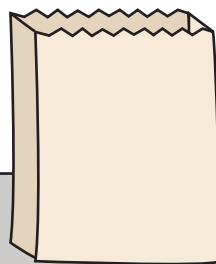
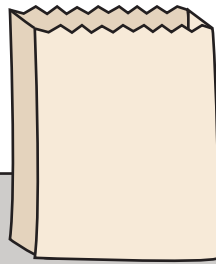
Tell the computer how many red, blue and yellow sweets to put in the bags.

Each bag has 10 sweets.

Make each bag have a different number of red, blue and yellow sweets.



$$3 + 3 + 4 = 10$$



Challenge

In one bag there are red, blue, yellow and green sweets.

The number in each box is different. Can you work it out?

blue +

yellow +

red +

green = 10 sweets

Pairs to 10 and 20

Sheet 1

Make pairs to 10.

$9 + \square = 10$

$\square + 3 = 10$

$7 + \square = 10$

$4 + \square = 10$

$\square + 5 = 10$

$\square + 2 = 10$

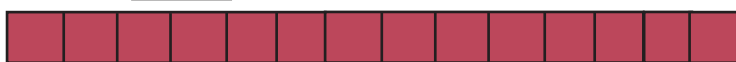
Complete these bars. Draw new bricks in a different colour.
The first one is done for you.

Make pairs to 20

$15 + \square = 20$



$14 + \square = 20$



$13 + \square = 20$



$17 + \square = 20$



$11 + \square = 20$



$18 + \square = 20$



Challenge

You have number cards 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10. Make pairs to 10, e.g. 6 and 4. How many pairs can you make? Which pair is impossible to make?

Pairs to 20

Sheet 2

Find the missing numbers.

$$10 + \square = 20$$

$$8 + \square = 20$$

$$6 + \square = 20$$

$$3 + \square = 20$$

$$\square + 5 = 20$$

$$\square + 9 = 20$$

$$\square + 14 = 20$$

$$\square + 13 = 20$$

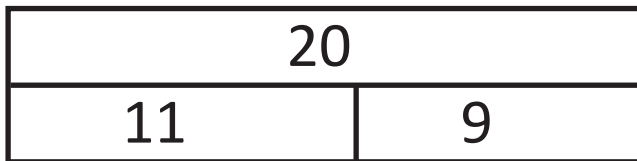
Challenge

You have 21 cards - 0 to 20. You can create pairs of numbers making 20. Write these down. Write the pair you cannot create.

Pairs to 20

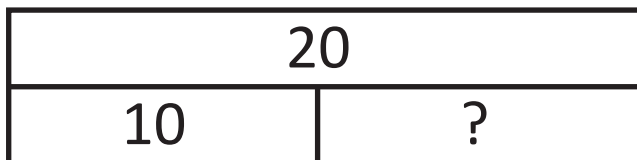
Sheet 3

This is a bar model:



Draw your own bar models for a friend to complete. Have one number missing. The total is 20. You must note the answers so you know if your friend got them right!

Example:



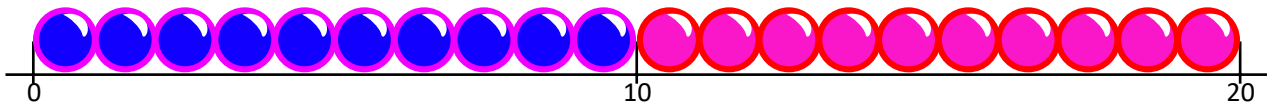
Draw at least six different bar models.

Challenge

Complete a friend's bar models and then mark each other's work. Were there any errors? Can you explain how to correct the errors?

Pairs to 10 and 20

Sheet 1



Write the missing numbers.

10	
6	

20	
10	

10	
	3

20	
	13

10	
9	

20	
	16

10	
4	

20	
6	

10	
8	

20	
	18

Challenge

Write 3 challenge questions for a friend to solve. Write them like this:

$$\square + 2 = 10$$

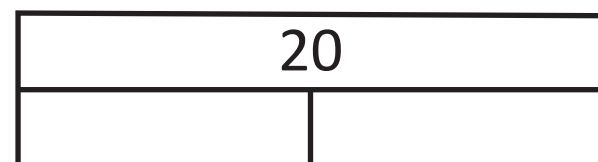
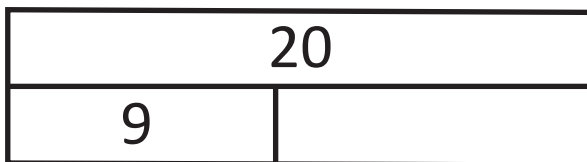
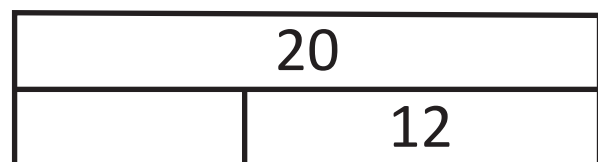
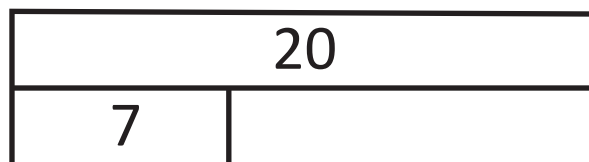
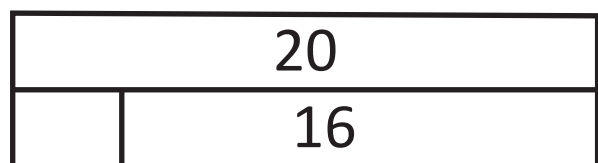
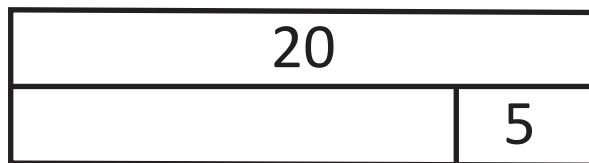
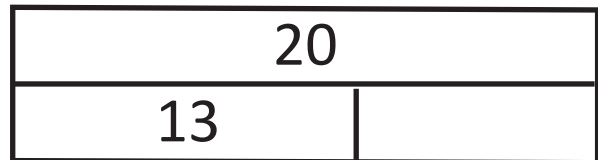
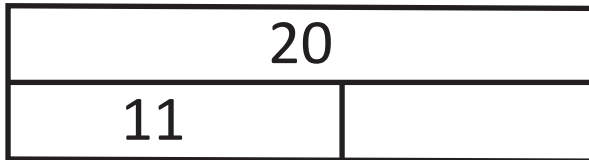
or

$$\square + 13 = 20$$

Pairs to 20

Sheet 2

Write the missing number in each bar model.



Challenge (to be done in pairs)

How many pairs of numbers can you find that equal 10?

Estimate how many pairs of numbers there are that equal 20. Explain why you estimated this number.

Now, write all the pairs of numbers that equal 20. How close to your estimate were you?

Missing numbers

Sheet 3

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

20		
11	?	?

20		
13	?	?

20		
9	?	?

20		
6	?	?

20		
7	?	?

20		
8	?	?

Challenge

Complete the table below to find the missing numbers.

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

Addition and Subtraction

Answers

Day 1

Sheet 1 - Addition and Subtraction

$5 + \boxed{5} = 10$

$3 + \boxed{5} = 8$

$4 + \boxed{5} = 9$

$6 + \boxed{4} = 10$

$6 + \boxed{2} = 8$

$6 + \boxed{3} = 9$

$7 + \boxed{3} = 10$

$7 + \boxed{1} = 8$

$7 + \boxed{2} = 9$

$8 + \boxed{2} = 10$

Sheet 2 - Addition and Subtraction

$0 + 10$

$7 + 3$

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

$1 + 9$

$8 + 2$

$2 + 8$

$9 + 1$

$3 + 7$

$10 + 0$

$4 + 6$

$6 + 4$

Sheet 3 - Addition and Subtraction

In any order:

$1 + 1 + 8$

$2 + 2 + 6$

$1 + 2 + 7$

$2 + 3 + 5$

$1 + 3 + 6$

$2 + 4 + 4$

$1 + 4 + 5$

$3 + 3 + 4$

Challenge

In any colour order:

$1 + 2 + 3 + 4$

Addition and Subtraction

Answers

Day 2

Sheet 1 - Pairs to 10 and 20

$9 + \boxed{1} = 10$

$\boxed{5} + 5 = 10$

$15 + \boxed{5} = 20$

$4 + \boxed{6} = 10$

$7 + \boxed{3} = 10$

$14 + \boxed{6} = 20$

$\boxed{7} + 3 = 10$

$\boxed{8} + 2 = 10$

$13 + \boxed{7} = 20$

$17 + \boxed{3} = 20$

$11 + \boxed{9} = 20$

$18 + \boxed{2} = 20$

Challenge

0 + 10
1 + 9
2 + 8
6 + 4
3 + 7

Children may also present the numbers in a different order e.g 10 + 0

You cannot make the pair 5 + 5, because you only have one 5 card.

Sheet 2 - Pairs to 20

$10 + \boxed{10} = 20$

$\boxed{15} + 5 = 20$

$8 + \boxed{12} = 20$

$\boxed{11} + 9 = 20$

$6 + \boxed{14} = 20$

$\boxed{6} + 14 = 20$

$3 + \boxed{17} = 20$

$\boxed{7} + 13 = 20$

Challenge

0 + 20
1 + 19
2 + 18
3 + 17
4 + 16

5 + 15
6 + 14
7 + 13
8 + 12
9 + 11

You cannot make the pair 10 + 10, because you only have one 10 card.

Sheet 3 - Pairs to 20

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

Addition and Subtraction

Answers

Day 3

Sheet 1 - Pairs to 10 and 20

10	
6	4

20	
10	10

10	
7	3

20	
7	13

10	
9	1

20	
4	16

10	
4	6

20	
6	14

10	
8	2

20	
2	18

Sheet 2 - Pairs to 20

20	
11	9

20	
13	7

20	
15	5

20	
4	16

20	
7	13

20	
8	12

20	
9	11

20	
10	10

Sheet 3 - Missing Numbers

Bar models - any pairs of numbers making the totals.

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