

Maths home pack

This home pack is intended to for students to complete slowly, doing a small amount per day. It is designed so that a large portion of their study can be done online, through websites called Splash Learn and Prodigy. Splash Learn has pre-set work relating to what we have been studying in class, while Prodigy tests students and adapts to their learning needs. There is a letter in this pack explaining how students can access the websites from home. The year 5 and 6 curriculum points that students are working towards for Number and Algebra are listed below. If the student requires more hard copy work, please feel free to contact the school.

Thanks!

Mr Wilson.

Year 5

- Identify and describe factors and multiples of whole numbers and use them to solve problems.
- Use estimation and rounding to check the reasonableness of answers to calculations.
- Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, written strategies and appropriate digital technologies.
- Solve problems involving division by a one digit number, including those that result in a remainder.
- Use efficient mental and written strategies and apply appropriate digital technologies to solve problems.
- Create simple financial plans.

Year 6

- Identify and describe properties of prime, composite, square and triangular number.
- Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers.
- Investigate everyday situations that use integers. Locate and represent these numbers on a number line.
- Investigate and calculate percentage discounts of 10%, 25% and 50% on sale items, with and without digital technologies.

Task 1

Counting

Activity 1—Counting

Count by 2s starting at 2. Colour in yellow.

Count by 5s starting at 5. Circle the numbers in green.

Count by 10s starting at 10. Draw a red cross on the numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

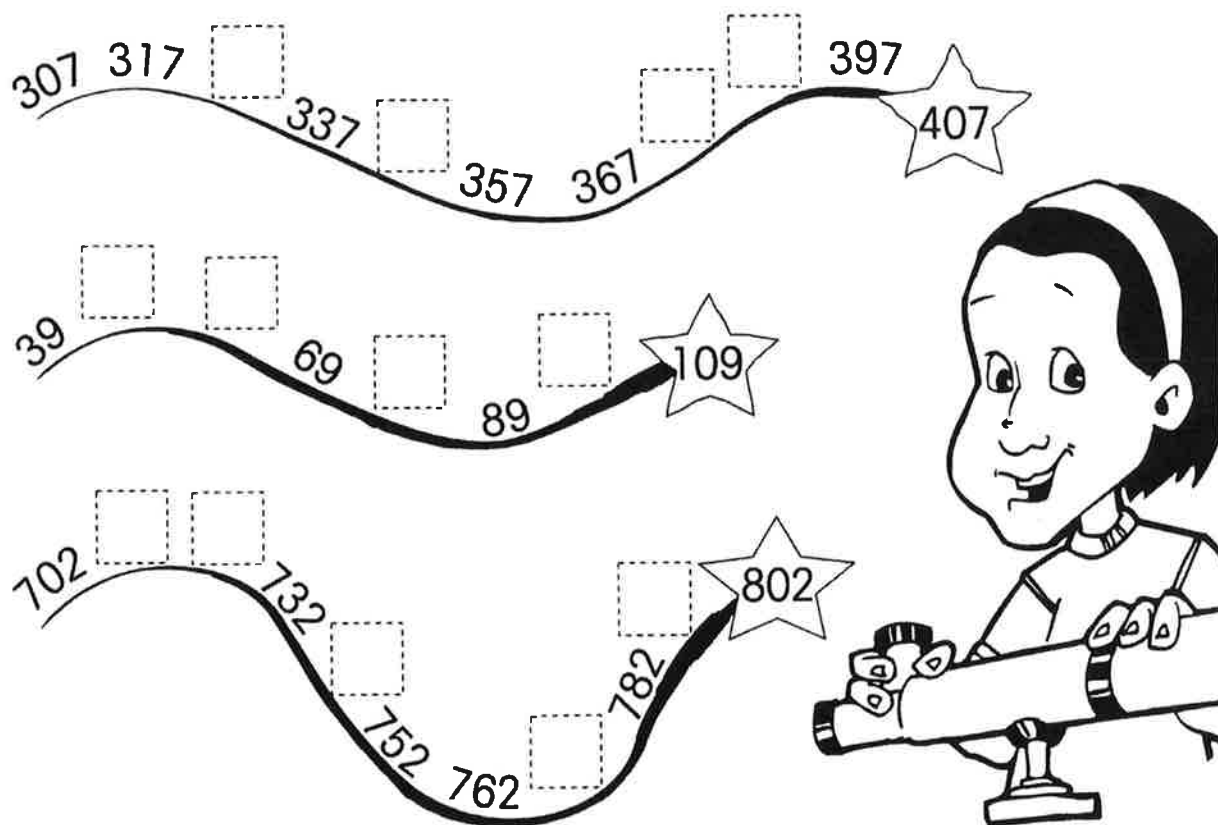
Activity 2—Ordering numbers

Order each set of numbers from smallest to largest.

a	80	99	107	5	
b	32	6	77	292	
c	354	908	3	33	

Activity 3—Missing numbers

Complete the counting pattern by filling in the correct numbers in the boxes provided.





Challenge Activity

- Count by 4s starting at 4. Draw a blue cross on the numbers.
- Count by 3s starting at 3. Circle the numbers in red.
- Count by 11s starting at 11. Colour in the numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Task 2

Focus: Number



Adding numbers to 20 using tens frames.

Introduction

You can use pictures, objects or diagrams to solve problems.

Here is an example:

I have 7 chocolate bars and my friend has 6 chocolate bars.
How many do we have altogether?

How can you solve the word problem?

You will need:

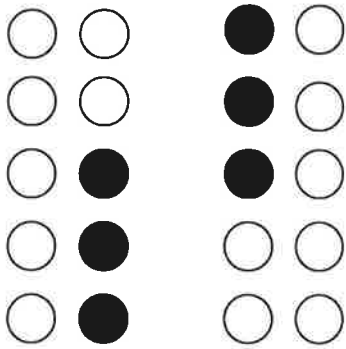
20 counters (shells or beads)

Tens frames



Step 1

Count 7 and then continue by counting the next 6.

**Step 2**

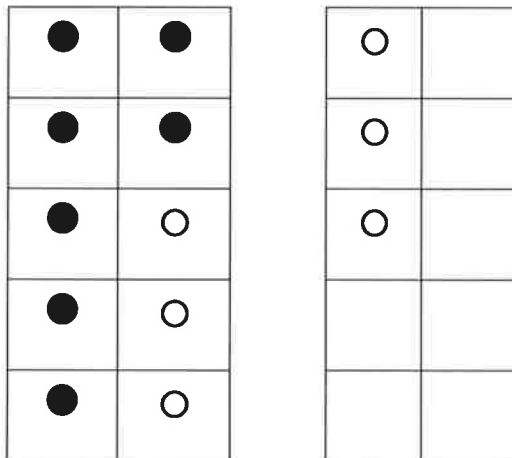
How many counters do you have?

$$7 + 6 = 13$$

Activity 1

Solve and record addition problems using tens frames.

For example:

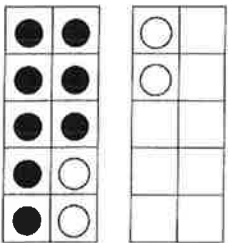


$$\boxed{7} + \boxed{5} = \boxed{12}$$

Activity 1 continued

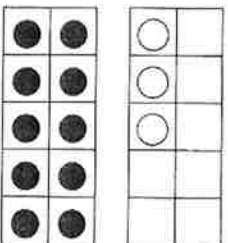
1. Use the tens frames to complete and solve the addition equations.

a



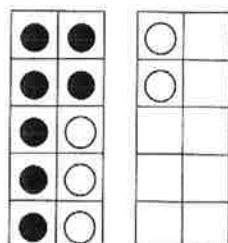
$8 + \square = \square$

b



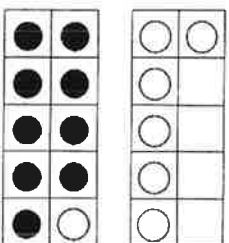
$\square + \square = \square$

c



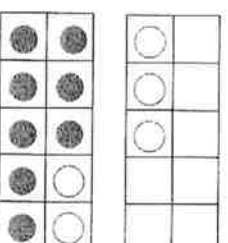
$\square + \square = \square$

d



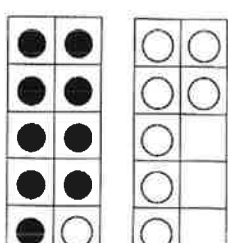
$\square + \square = \square$

e



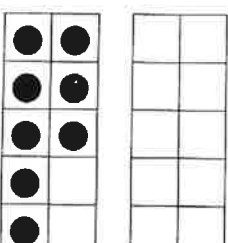
$\square + \square = \square$

f

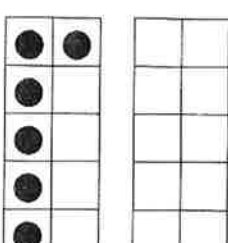


$\square + \square = \square$

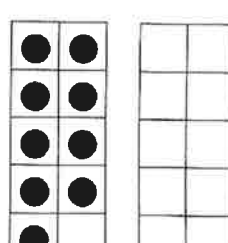
2. Draw circles in the tens frames to complete and solve the addition equations.



$8 + 7 = \square$



$6 + 8 = \square$

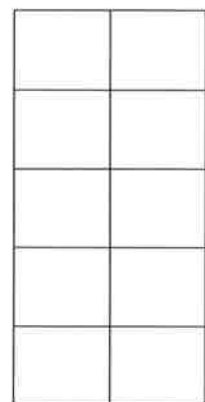
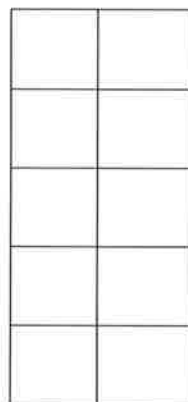
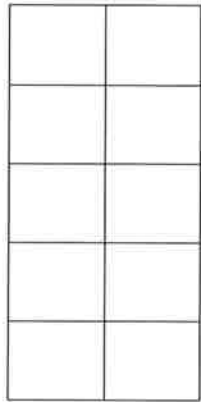
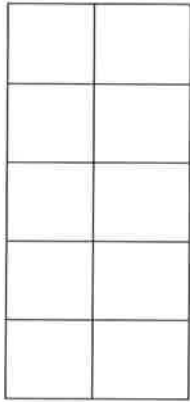


$9 + 7 = \square$

Activity 2

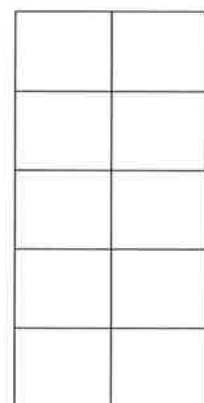
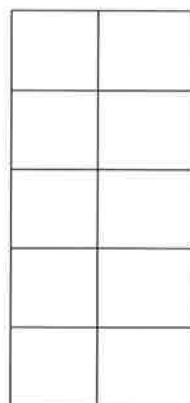
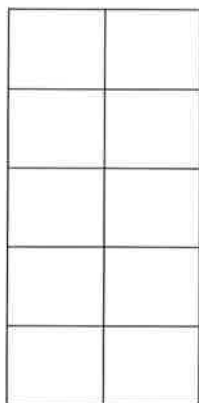
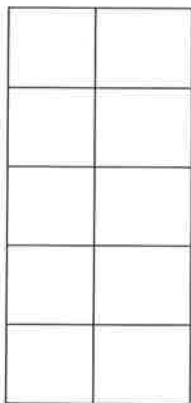
Make your own addition equations by drawing circles in two different colours on these tens frames. Remember to fill the first tens frame before starting on the second one.

Record your addition equation (number sentence) below each frame.



$$\square + \square = \square$$

$$\square + \square = \square$$



$$\square + \square = \square$$

$$\square + \square = \square$$

Activity 3

Create an addition word problem based on an equation.

Step 1

Choose one of the addition equations from the tens frames on the previous page. For example:

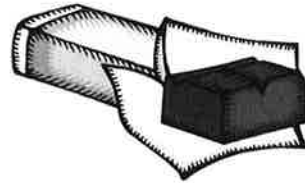
$$7 + 5 = 12$$

Step 2

Create an addition word problem to match the equation.

For example:

Kathy has 7 chocolate bars and Peter gave her 5 more. How many does she have altogether?

**Step 3**

Choose addition equations from the tens frames on the previous page and create an addition word problem on the next page.

Task 3

Addition and Subtraction

Activity 1—Counting on and back

Count on or back from the numbers in the left-hand column.

The first one has been done for you.

	1 more	1 less	5 more	5 less
10	11			
99				
25				
8				
5				

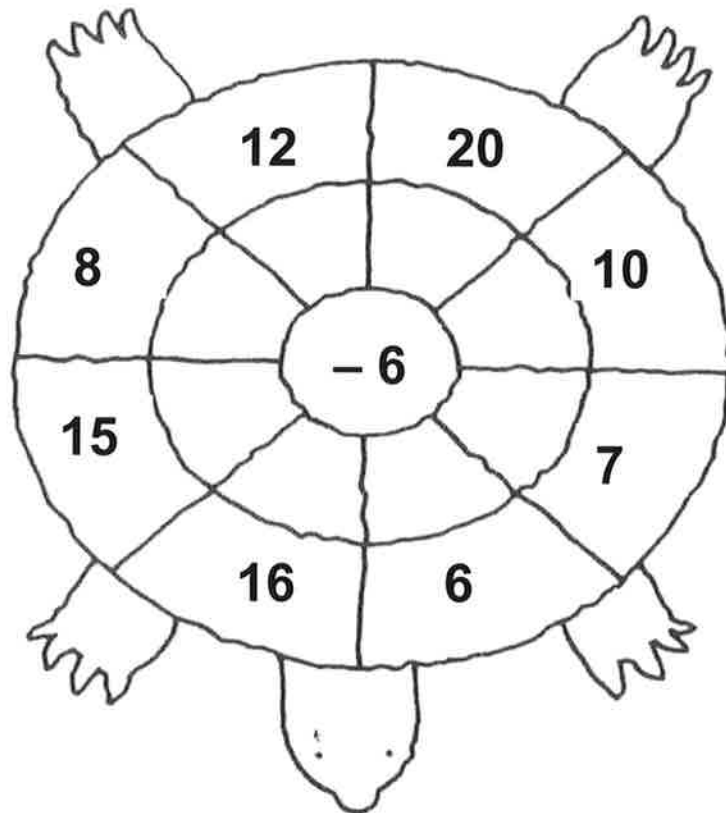
Activity 2—Addition grid

Add the numbers on the grid.

+	9	3	10	8	6
2					
5					
8					
10					

Activity 3—Subtraction

Take away 6 from the outside numbers.

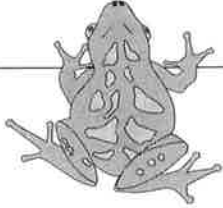




Challenge Activity

Addition and subtraction equations

Work out the answers to these *equations*. You may use counters or a number chart.

$3 + 4 =$	$7 - 0 =$	
$3 + 9 =$	$10 - 2 =$	
$11 + 2 =$	$12 - 3 =$	
$24 + 4 =$	$14 - 10 =$	
$12 + 2 =$	$11 - 6 =$	
$6 + 6 =$	$4 - 4 =$	

What did you use to work out the answers?



I used.....

Task 3

Money and fractions

Activity 1—Adding coins

Add the total amount of each row of coins and write it in the column.


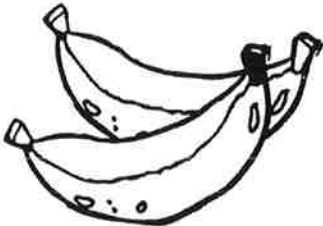


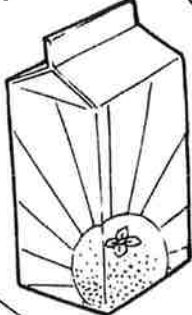

	
	
	
	
	
	
	



Challenge Activity

Money

Calculate the change for each person.

<p>Jack is using </p> <p>to buy bananas </p> <p>for </p>	<p>Lucy is using </p> <p>to buy juice </p> <p>for </p>
<p>Change:</p>	<p>Change:</p>



*Cut out the dominos and
match the numbers!*

Start $13+5=$



18 $19-8=$



11 $11-7=$



4 $6+8=$



14 $17-8=$



9 $12+4=$



16 $19-9=$



10 $15-9=$



6 $18-15=$



3 $12+8=$



20 $5+8=$



13 $14-6=$



8 $15-3=$



12 Stop



