

Ashley Hill Multi Academy Trust

Mathematics Homework



Year 2

Name: _____

*Encourage one another and build each other up
1 Thessalonians 5:11*

Parent Instructions:

Revision:

The first 4 questions for each set of homework are a recap of what was covered in year 1 and should always be **completed first** to ensure children have an understanding of the skills they need to use.

Speedy maths:

Speedy maths is to help improve children's mental maths skills. For this activity please time how quickly children can complete the table of questions. At the end write the time it took them in the box at the bottom.

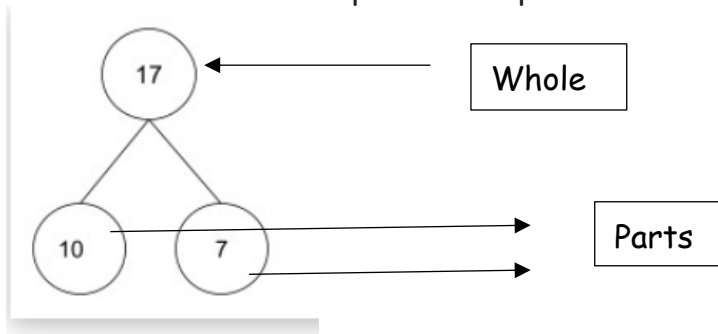
Area of Focus:

The area of focus work is based on the lessons being taught in class. These questions should help further embed the learning the children are already doing in school.

Key Vocabulary Meaning:

Numeral = number e.g., 1,2,3 etc

Part Whole Models = a pictorial representation that shows the relationship between a whole and its parts.



> more than < Less than = Same as/Equal to

Vertice = corner of a 2D or 3D shape

2D shape = flat shape e.g., square, circle

3D shape = solid shape e.g., cube, sphere

Autumn

Week 1 - 15th September Due in: 26th September

Revision:

1) How many cakes?



2) What time is shown on the clock?



3) What is the total value of the coins?



4) What is half of 14?

Speedy Maths

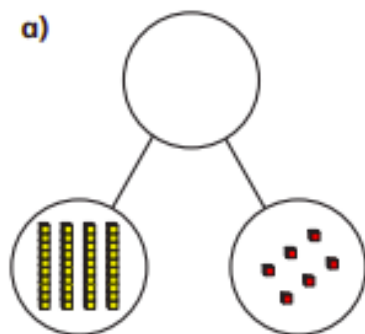
$1 + 4 =$	$0 + 5 =$	$3 + 2 =$
$3 + 3 =$	$2 + 4 =$	$3 + 3 =$
$4 + 1 =$	$1 + 4 =$	$4 + 2 =$
$6 + 0 =$	$5 + 1 =$	$5 + 0 =$
$2 + 4 =$	$4 + 2 =$	$2 + 4 =$
$3 + 2 =$	$0 + 5 =$	$3 + 3 =$
$5 + 1 =$	$6 + 0 =$	$1 + 5 =$
$0 + 6 =$	$2 + 4 =$	$6 + 0 =$
$3 + 3 =$	$5 + 1 =$	$4 + 1 =$
$2 + 3 =$	$3 + 2 =$	<u>Time taken:</u>
$3 + 2 =$	$4 + 1 =$	
$1 + 5 =$	$0 + 5 =$	$2 + 4 =$
$3 + 3 =$	$2 + 3 =$	
$4 + 2 =$	$1 + 4 =$	

Area of focus:

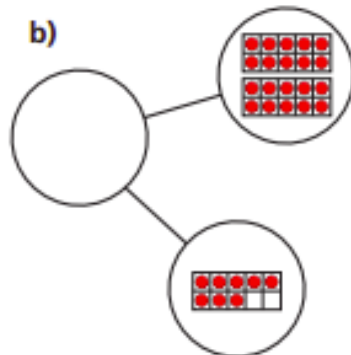
- 1 Write a numeral to complete the part-whole models.



a)

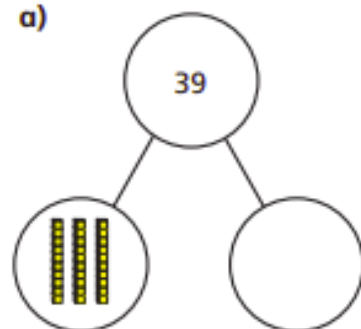


b)

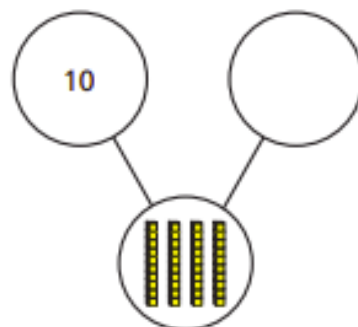


- 2 Write a numeral to complete the part-whole models.

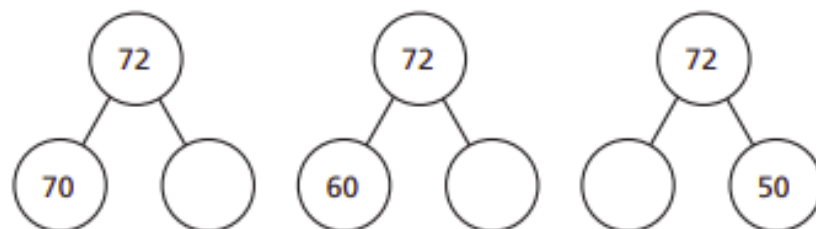
a)



b)



- 3 Complete the part-whole models.



What is the same and what is different about the part-whole models?

- 4 There are 10 cookies in each tin.

Alex has these cookies.



Amir has these cookies.



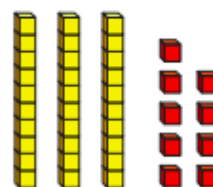
Who has fewer cookies?

How do you know?

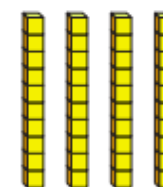


- 5 Mo and Whitney have each made a number.

Mo's number



Whitney's number



Mo thinks his number is greater because there are more objects.

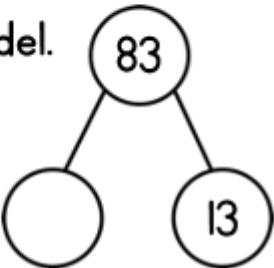
Do you agree?

Revision:

1) Write the next 3 numbers in the sequence.

25, 30, 35, 40

2) Complete the part-whole model.



3) What time is shown on the clock?



4) What is three less than 12?

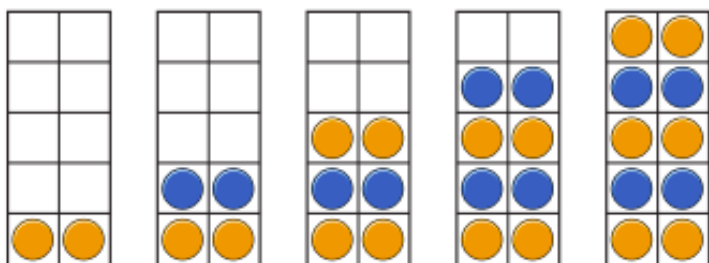
Speedy Maths

4 + 5 =	1 + 6 =	2 + 6 =
3 + 4 =	5 + 4 =	7 + 1 =
1 + 7 =	2 + 5 =	2 + 5 =
5 + 3 =	3 + 6 =	3 + 6 =
7 + 2 =	0 + 7 =	7 + 2 =
1 + 8 =	6 + 3 =	1 + 8 =
0 + 7 =	1 + 7 =	0 + 7 =
4 + 4 =	5 + 4 =	4 + 5 =
2 + 5 =	9 + 0 =	6 + 2 =
9 + 0 =	3 + 6 =	3 + 4 =
4 + 3 =	2 + 5 =	9 + 0 =
8 + 0 =	6 + 1 =	5 + 2 = <u>Time taken:</u>
5 + 2 =	1 + 8 =	
4 + 4 =	8 + 0 =	

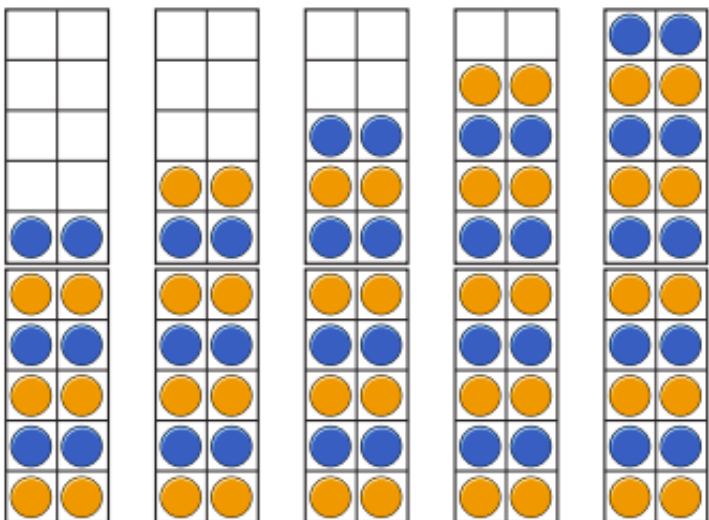
Area of focus:

I What are the numbers?

a)



b)



2 How many flowers are there?



3 Colour 35 petals.



4 Fill in the missing numbers.

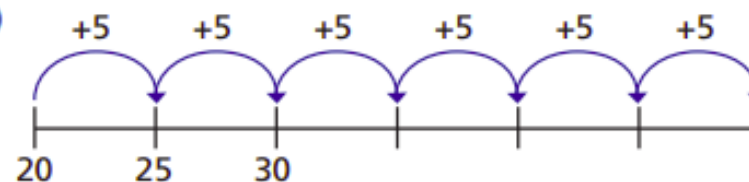
a)



b)



c)



5 Mo counts up to 50 in 5s.

Eva counts up to 50 in 2s.

What numbers do they both say?

Can you spot a pattern?



Revision:

- 1) What is 24 plus 6?
- 
- 2) What addition can you do to check $12 - 5 = 7$?
- 3) Write 16 as a word.
- 4) Write the numbers in order starting with the greatest.
27 19 40

Speedy Maths

4 + 6 =	2 + 18 =	50 + 50 =
1 + 9 =	70 + 30 =	80 + 20 =
30 + 70 =	14 + 6 =	2 + 8 =
5 + 15 =	5 + 5 =	17 + 3 =
80 + 20 =	17 + 3 =	40 + 60 =
2 + 8 =	11 + 9 =	100 + 0 =
13 + 7 =	90 + 10 =	3 + 7 =
10 + 90 =	6 + 4 =	1 + 9 =
16 + 4 =	70 + 30 =	70 + 30 =
7 + 13 =	1 + 9 =	18 + 2 =
10 + 10 =	14 + 6 =	5 + 15 =
1 + 9 =	0 + 20 =	10 + 0 =
8 + 2 =	2 + 18 =	<u>Time taken:</u>
50 + 50 =	7 + 3 =	

Area of focus:

- 1 a) Dani has some balloons.



How many balloons does Dani have?

She buys one more bag of balloons.

How many balloons does Dani have now?

- b) Mo has some balloons.



How many balloons does Mo have?

He gives one bag of balloons to his friend.

How many balloons does Mo have now?

- 2 Complete the tables.

a)

10 less	Number	10 more
	21	

c)

10 less	Number	10 more

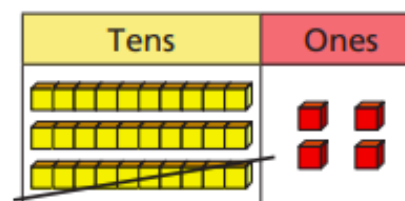
b)

10 less	Number	10 more

- 3 Use counters to work out the additions.

a) $24 + 20$ b) $17 + 50$ c) $40 + 16$

- 4 What calculation is represented?



- 5 Use counters to work out the subtractions.

a) $34 - 20$ b) $57 - 20$ c) $46 - 40$

- 6 Huan has 6 stickers.



He gets 10 new stickers every day for 8 days.

How many stickers will Huan have after 8 days?

Use the number track to help you.



Week 4 - 3rd November Due in: 14th November

Revision:

- 1) Whitney has 57 pennies.
She gives Dora 32 pennies.
How many pennies does Whitney have left?
- 2) Work out $33 - 4$
- 3) Use $>$, $<$ or $=$ to compare the number sentences.
 $12 + 3$ $\bigcirc$ $18 - 3$
- 4) Write fourteen as a numeral.

Speedy Maths

$10 + 10 =$	$12 + 8 =$	$16 + 4 =$
$5 + 15 =$	$9 + 10 =$	$3 + 17 =$
$0 + 20 =$	$7 + 13 =$	$12 + 7 =$
$9 + 10 =$	$19 + 1 =$	$4 + 15 =$
$4 + 16 =$	$6 + 13 =$	$11 + 9 =$
$18 + 2 =$	$2 + 18 =$	$2 + 17 =$
$1 + 18 =$	$13 + 6 =$	$10 + 9 =$
$14 + 6 =$	$20 + 0 =$	$8 + 12 =$
$11 + 8 =$	$15 + 4 =$	$17 + 3 =$
$7 + 12 =$	$13 + 7 =$	$5 + 14 =$
$6 + 14 =$	$14 + 5 =$	$16 + 3 =$
$8 + 11 =$	$18 + 2 =$	$1 + 19 =$
$3 + 16 =$	$9 + 11 =$	$7 + 13 =$
$10 + 10 =$	$15 + 5 =$	$14 + 6 =$
<u>Time taken:</u>		

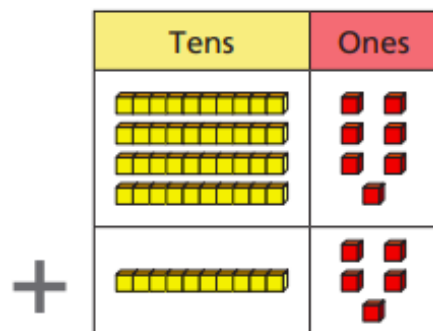
Area of focus:

- 1 Fill in the boxes to describe each number.

ones = ten + ones



2



Add the ones.

ones + ones = ones

ones = ten + ones

Add the tens.

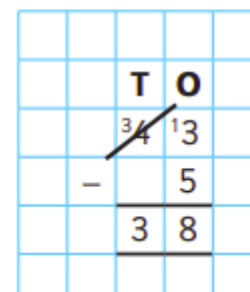
tens + tens = tens

Complete the addition.

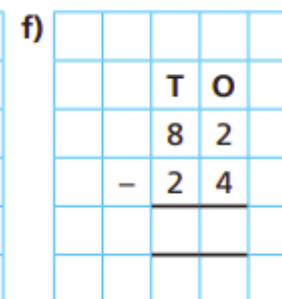
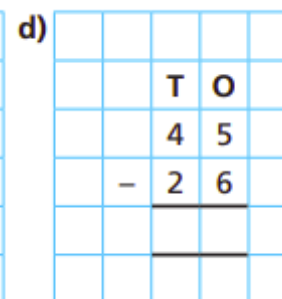
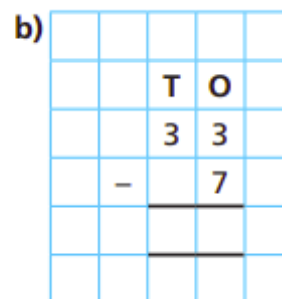
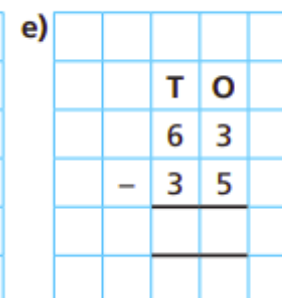
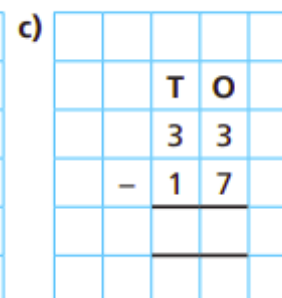
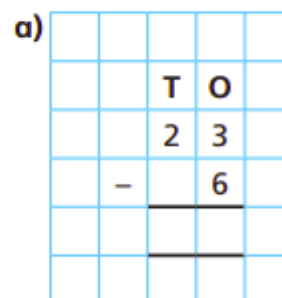
+ =



- 3 Tommy is working out $43 - 5$



- 4 Complete the subtractions.

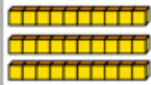


Revision:

1) 27 + = 100

2) What is 43 take away 13?

3) Complete the table.

10 less	Number	10 more
		
	34	

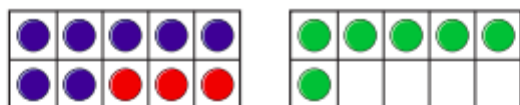
4) Which shape is on the left of the circle?



Speedy Maths

1 + = 5	0 + 5 =	+ 2 = 5
3 + = 6	2 + 4 =	+ 3 = 6
4 + 1 =	1 + = 5	4 + = 6
+ 0 = 6	5 + = 6	5 + = 5
2 + = 6	4 + = 6	2 + = 6
+ 2 = 5	0 + 5 =	+ 3 = 6
5 + 1 =	6 + = 6	1 + = 6
0 + = 6	+ 4 = 6	6 + 0 =
+ 3 = 6	5 + 1 =	+ 1 = 5
2 + = 5	3 + = 5	0 + = 5
3 + = 5	4 + 1 =	+ 1 = 6
1 + = 6	+ 5 = 5	2 + 4 =
+ 3 = 6	2 + = 5	<u>Time taken:</u>
+ 2 = 6	1 + = 5	

1 What addition is represented?



2 Work out the additions.

$$5 + 8 + 2$$

$$5 + 2 + 8$$

$$8 + 2 + 5$$

Which was the easiest?

Talk about it with a partner.

3 Nijah is working out $9 + 4 + 1$

Here are her workings.

$$9 + 1 = 10$$

$$10 + 4 = 14$$



Nijah's workings are wrong because she did them in the wrong order.

Do you agree with Ron?

Explain your answer.

4 How many vertices does each shape have?



How did you count the vertices?

5

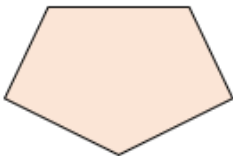


My shape has more vertices than a triangle, but fewer than a hexagon.

What shape could Ron have?

Revision:

1) How many sides does this shape have?



2) + 13 = 21

3) Kim has 11 cakes.
She gives 5 to her friends.
How many does she have left?

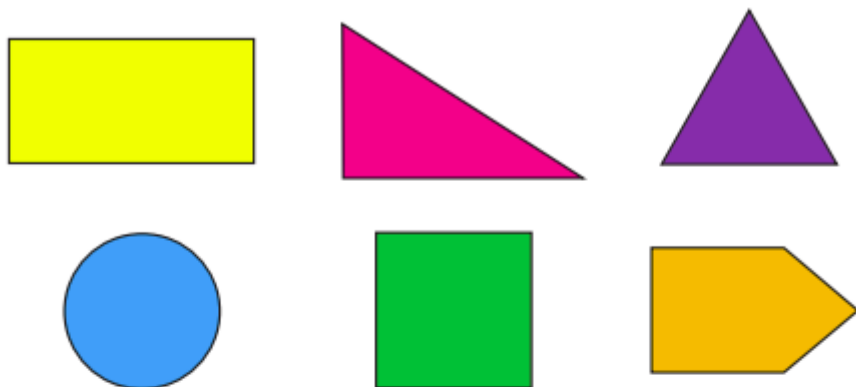
4) What month is before October?

Speedy Maths

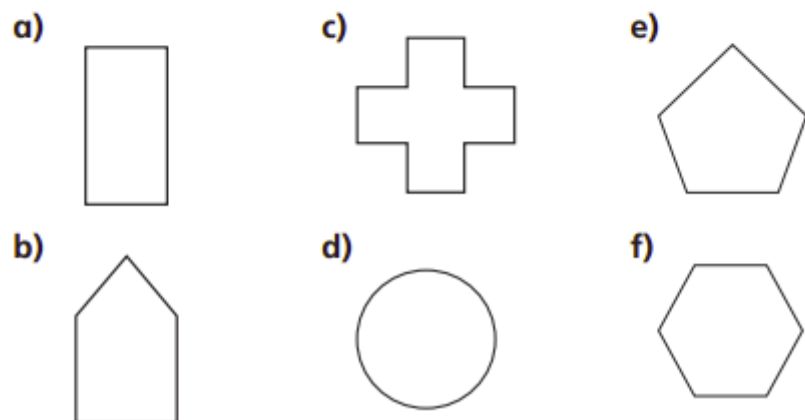
4 + 5 =	1 + 6 =	+ 6 = 8
3 + = 7	+ 4 = 9	7 + = 8
+ 7 = 8	2 + = 7	2 + 5 =
5 + = 8	3 + = 9	3 + = 9
+ 2 = 9	0 + 7 =	7 + 2 =
1 + 8 =	6 + 3 =	+ 8 = 9
0 + = 7	1 + = 8	0 + = 7
4 + = 8	5 + = 9	4 + = 9
+ 5 = 7	+ 0 = 9	6 + 2 =
+ 0 = 9	3 + 6 =	3 + 4 =
4 + = 7	2 + = 7	9 + = 9
8 + = 8	6 + 1 =	5 + = 8
5 + 2 =	1 + = 9	<u>Time taken:</u>
+ 4 = 8	+ 0 = 8	

Area of focus:

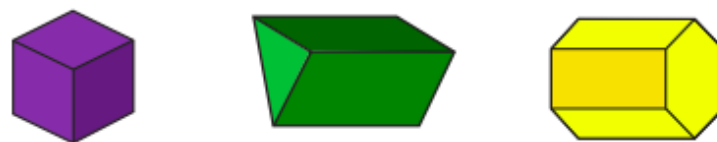
1 Which shapes have a vertical line of symmetry?



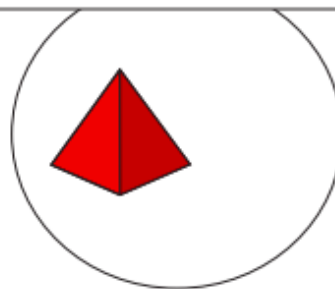
2 Draw the vertical line of symmetry on each shape.



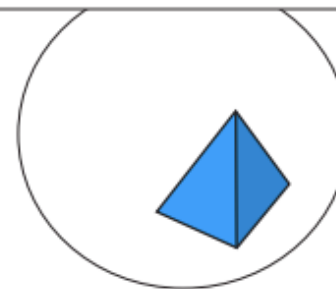
3 Which shape could go in both groups?



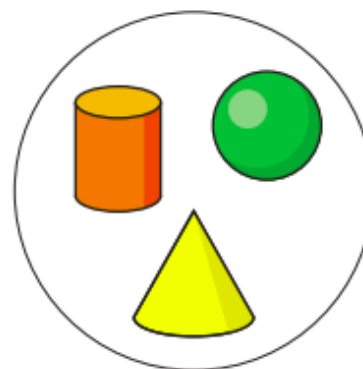
odd number of faces



even number of vertices



4 How have the shapes been grouped?



Answers

Week 1 -

1) How many cakes?



23

2) What time is shown on the clock?

8 o'clock



3) What is the total value of the coins?



20p

4) What is half of 14?

7

$1 + 4 = 5$	$0 + 5 = 5$	$3 + 2 = 5$
$3 + 3 = 6$	$2 + 4 = 6$	$3 + 3 = 6$
$4 + 1 = 5$	$1 + 4 = 5$	$4 + 2 = 6$
$6 + 0 = 6$	$5 + 1 = 6$	$5 + 0 = 5$
$2 + 4 = 6$	$4 + 2 = 6$	$2 + 4 = 6$
$3 + 2 = 5$	$0 + 5 = 5$	$3 + 3 = 6$
$5 + 1 = 6$	$6 + 0 = 6$	$1 + 5 = 6$
$0 + 6 = 6$	$2 + 4 = 6$	$6 + 0 = 6$
$3 + 3 = 6$	$5 + 1 = 6$	$4 + 1 = 5$
$2 + 3 = 5$	$3 + 2 = 5$	$0 + 5 = 5$
$3 + 2 = 5$	$4 + 1 = 5$	$5 + 1 = 6$
$1 + 5 = 6$	$0 + 5 = 5$	$2 + 4 = 6$
$3 + 3 = 6$	$2 + 3 = 5$	
$4 + 2 = 6$	$1 + 4 = 5$	

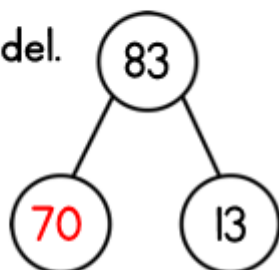
Question	Answer
1	a) 46 b) 28
2	a) 9 b) 30
3	2, 12, 22 The whole is the same in all of the part-whole models. The parts that make up the whole are different. 72 is made up of 7 tens and 2 ones. 72 is made up of 6 tens and 12 ones. 72 is made up of 5 tens and 22 ones. You could partition 72 into 4 tens and 32 ones. (one possible answer)
4	Amir has fewer cookies than Alex. Amir only has one tin of 10 cookies, and 8 ones. Alex has two tens and 3 ones, which is more.
5	The children should discuss that they disagree with Mo, because 9 ones is smaller than 1 ten. So 3 tens and 9 ones is smaller than 4 tens.

Week 2 -

- 1) Write the next 3 numbers in the sequence.

25, 30, 35, 40 45, 50, 55

- 2) Complete the part-whole model.



- 3) What time is shown on the clock?

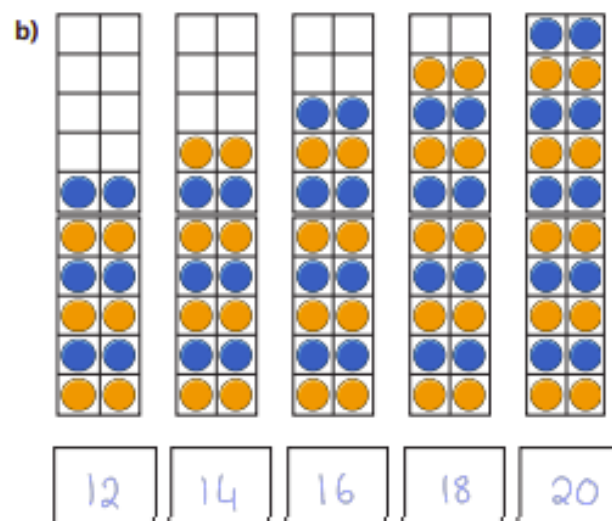
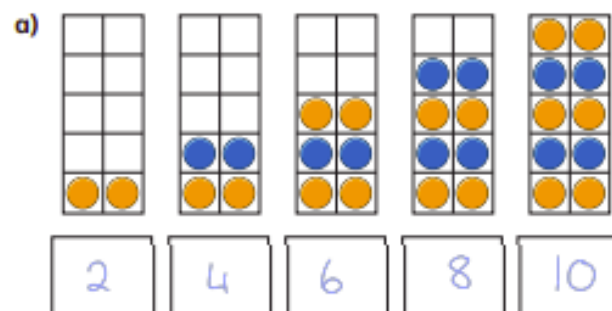
6 o'clock



- 4) What is three less than 12? 9

$4 + 5 = 9$	$1 + 6 = 7$	$2 + 6 = 8$
$3 + 4 = 7$	$5 + 4 = 9$	$7 + 1 = 8$
$1 + 7 = 8$	$2 + 5 = 7$	$2 + 5 = 7$
$5 + 3 = 8$	$3 + 6 = 9$	$3 + 6 = 9$
$7 + 2 = 9$	$0 + 7 = 7$	$7 + 2 = 9$
$1 + 8 = 9$	$6 + 3 = 9$	$1 + 8 = 9$
$0 + 7 = 7$	$1 + 7 = 8$	$0 + 7 = 7$
$4 + 4 = 8$	$5 + 4 = 9$	$4 + 5 = 9$
$2 + 5 = 7$	$9 + 0 = 9$	$6 + 2 = 8$
$9 + 0 = 9$	$3 + 6 = 9$	$3 + 4 = 7$
$4 + 3 = 7$	$2 + 5 = 7$	$9 + 0 = 9$
$8 + 0 = 8$	$6 + 1 = 7$	$5 + 3 = 8$
$5 + 2 = 7$	$1 + 8 = 9$	
$4 + 4 = 8$	$8 + 0 = 8$	

1 What are the numbers?



2 How many flowers are there?

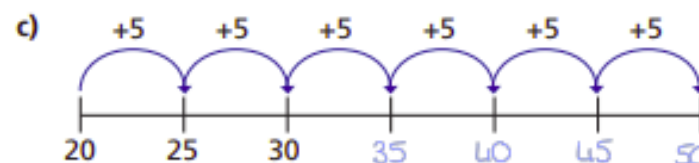


There are flowers.

3 Colour 35 petals.



4 Fill in the missing numbers.



5 Mo counts up to 50 in 5s.

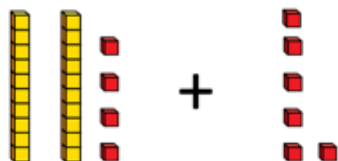
Eva counts up to 50 in 2s.

What numbers do they both say?

Can you spot a pattern?

Week 3 -

1) What is 24 plus 6? **30**



2) What addition can you do to check $12 - 5 = 7$?

$7 + 5$ or $5 + 7$

3) Write 16 as a word. **Sixteen**

4) Write the numbers in order starting with the greatest.

27 19 40 **40, 27, 19**

$4 + 6 = 10$	$2 + 18 = 20$	$50 + 50 = 100$
$1 + 9 = 10$	$70 + 30 = 100$	$80 + 20 = 100$
$30 + 70 = 100$	$14 + 6 = 20$	$2 + 8 = 10$
$5 + 15 = 20$	$5 + 5 = 10$	$17 + 3 = 20$
$80 + 20 = 100$	$17 + 3 = 20$	$40 + 60 = 100$
$2 + 8 = 10$	$11 + 9 = 20$	$100 + 0 = 100$
$13 + 7 = 20$	$90 + 10 = 100$	$3 + 7 = 10$
$10 + 90 = 100$	$6 + 4 = 10$	$1 + 9 = 10$
$16 + 4 = 20$	$70 + 30 = 100$	$70 + 30 = 100$
$7 + 13 = 20$	$1 + 9 = 10$	$18 + 2 = 20$
$10 + 10 = 20$	$14 + 6 = 20$	$5 + 15 = 20$
$1 + 9 = 10$	$0 + 20 = 20$	$10 + 0 = 10$
$8 + 2 = 10$	$2 + 18 = 20$	
$50 + 50 = 100$	$7 + 3 = 10$	

Question	Answer																											
1	a) Dani has 40 balloons. 50 b) 70 60																											
2	a) <table><tr><th>10 less</th><th>Number</th><th>10 more</th></tr><tr><td></td><td></td><td></td></tr><tr><td>11</td><td>21</td><td>31</td></tr></table> b) <table><tr><th>10 less</th><th>Number</th><th>10 more</th></tr><tr><td></td><td></td><td></td></tr><tr><td>25</td><td>35</td><td>45</td></tr></table> c) <table><tr><th>10 less</th><th>Number</th><th>10 more</th></tr><tr><td></td><td></td><td></td></tr><tr><td>21</td><td>31</td><td>41</td></tr></table>	10 less	Number	10 more				11	21	31	10 less	Number	10 more				25	35	45	10 less	Number	10 more				21	31	41
10 less	Number	10 more																										
11	21	31																										
10 less	Number	10 more																										
25	35	45																										
10 less	Number	10 more																										
21	31	41																										
3	a) 44 b) 67 c) 56																											
4	$34 - 10 = 24$																											
5	a) 14 b) 37 c) 6																											
6	Huan will have 86 stickers.																											
7	a) 70 b) 20 c) 10																											

Week 4 -

- 1) Whitney has 57 pennies.
She gives Dora 32 pennies.
How many pennies does Whitney have left?
25 pennies
- 2) Work out $33 - 4$ **29**
- 3) Use $>$, $<$ or $=$ to compare the number sentences.
 $12 + 3$ **$=$** $18 - 3$
- 4) Write fourteen as a numeral. **14**

$10 + 10 = 20$	$12 + 8 = 20$	$16 + 4 = 20$
$5 + 15 = 20$	$9 + 10 = 19$	$3 + 17 = 20$
$0 + 20 = 20$	$7 + 13 = 20$	$12 + 7 = 19$
$9 + 10 = 19$	$19 + 1 = 20$	$4 + 15 = 19$
$4 + 16 = 20$	$6 + 13 = 19$	$11 + 9 = 20$
$18 + 2 = 20$	$2 + 18 = 20$	$2 + 17 = 19$
$1 + 18 = 19$	$13 + 6 = 19$	$10 + 9 = 19$
$14 + 6 = 20$	$20 + 0 = 20$	$8 + 12 = 20$
$11 + 8 = 19$	$15 + 4 = 19$	$17 + 3 = 20$
$7 + 12 = 19$	$13 + 7 = 20$	$5 + 14 = 19$
$6 + 14 = 20$	$14 + 5 = 19$	$16 + 3 = 19$
$8 + 11 = 19$	$18 + 2 = 20$	$1 + 19 = 20$
$3 + 16 = 19$	$9 + 11 = 20$	$7 + 13 = 20$
$10 + 10 = 20$	$15 + 5 = 20$	$14 + 6 = 20$

Question	Answer
1	a) 10 ones = 1 ten b) 14 ones = 1 ten and 4 ones c) 17 ones = 1 ten and 7 ones
2	7 ones + 5 ones = 12 ones 12 ones = 1 ten and 2 ones 4 tens + 1 ten = 5 tens 47 + 15 = 62
3	Tommy 'borrows' one of the tens from the tens digit to make a number greater than 10 in the ones column, so that he can subtract 5
4	a) 17 b) 26 c) 16 d) 19 e) 28 f) 58

Week 5 -

1) $27 + \boxed{73} = 100$

2) What is 43 take away 13? 30

3) Complete the table.

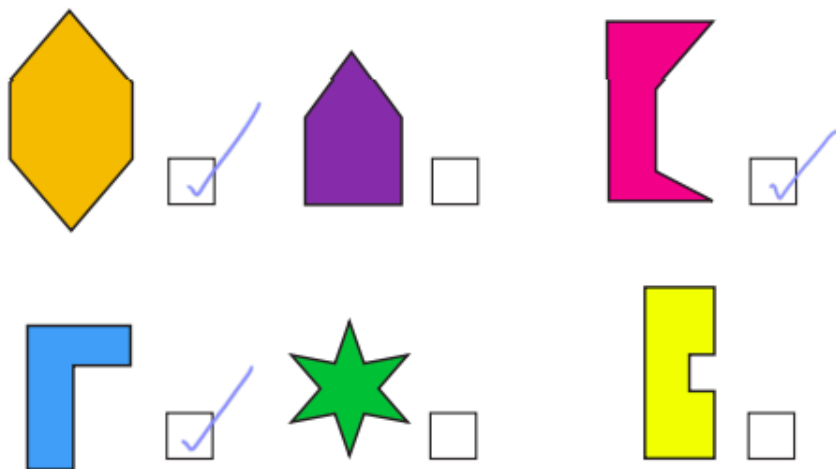
10 less	Number	10 more
		
24	34	44

4) Which shape is on the left of the circle?
 The triangle

$1 + 4 = 5$	$0 + 5 = 5$	$3 + 2 = 5$
$3 + 3 = 6$	$2 + 4 = 6$	$3 + 3 = 6$
$4 + 1 = 5$	$1 + 4 = 5$	$4 + 2 = 6$
$6 + 0 = 6$	$5 + 1 = 6$	$5 + 0 = 5$
$2 + 4 = 6$	$4 + 2 = 6$	$2 + 4 = 6$
$3 + 2 = 5$	$0 + 5 = 5$	$3 + 3 = 6$
$5 + 1 = 6$	$6 + 0 = 6$	$1 + 5 = 6$
$0 + 6 = 6$	$2 + 4 = 6$	$6 + 0 = 6$
$3 + 3 = 6$	$5 + 1 = 6$	$4 + 1 = 5$
$2 + 3 = 5$	$3 + 2 = 5$	$3 + 2 = 5$
$3 + 2 = 5$	$4 + 1 = 5$	$5 + 1 = 6$
$1 + 5 = 6$	$0 + 5 = 5$	$2 + 4 = 6$
$3 + 3 = 6$	$2 + 4 = 6$	
$4 + 2 = 6$	$1 + 5 = 6$	

Question	Answer
1	$7 + 3 + 6 = 16$
2	$5 + 8 + 2 = 15$ $5 + 2 + 8 = 15$ $8 + 2 + 5 = 15$ Children may have found the last additions the easiest, as the first two digits summed to 10
3	No. When we are adding numbers, it does not matter which order they are added.

3 Tick the shapes with 6 vertices.



Talk to a partner about your answers.

4 How many vertices does each shape have?



5



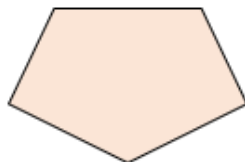
My shape has more vertices than a triangle, but fewer than a hexagon.

What shape could Ron have? e.g. square

Week 6 -

1) How many sides does this shape have?

5



2) 8 + 13 = 21

3) Kim has 11 cakes.
She gives 5 to her friends.
How many does she have left? 6

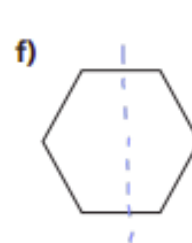
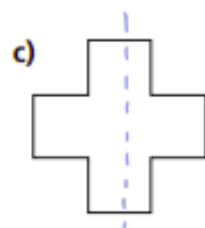
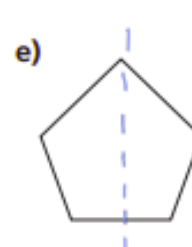
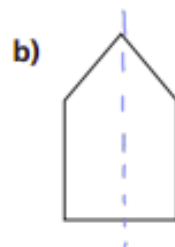
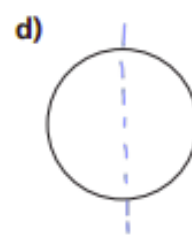
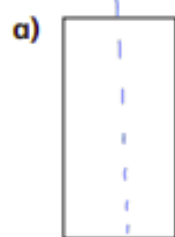
4) What month is before October?
September

$4 + 5 = 9$	$1 + 6 = 7$	$2 + 6 = 8$
$3 + 4 = 7$	$5 + 4 = 9$	$7 + 1 = 8$
$1 + 7 = 8$	$2 + 5 = 7$	$2 + 5 = 7$
$5 + 3 = 8$	$3 + 6 = 9$	$3 + 6 = 9$
$7 + 2 = 9$	$0 + 7 = 7$	$7 + 2 = 9$
$1 + 8 = 9$	$6 + 3 = 9$	$1 + 8 = 9$
$0 + 7 = 7$	$1 + 7 = 8$	$0 + 7 = 7$
$4 + 4 = 8$	$5 + 4 = 9$	$4 + 5 = 9$
$2 + 5 = 7$	$9 + 0 = 9$	$6 + 2 = 8$
$9 + 0 = 9$	$3 + 6 = 9$	$3 + 4 = 7$
$4 + 3 = 7$	$2 + 5 = 7$	$9 + 0 = 9$
$8 + 0 = 8$	$6 + 1 = 7$	$5 + 3 = 8$
$5 + 2 = 7$	$1 + 8 = 9$	
$4 + 4 = 8$	$8 + 0 = 8$	

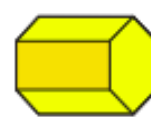
- 1 Tick the shapes that have a vertical line of symmetry.



- 2 Draw the vertical line of symmetry on each shape.

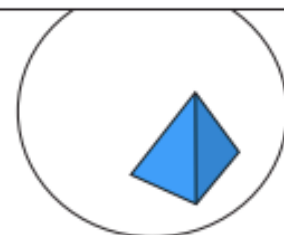
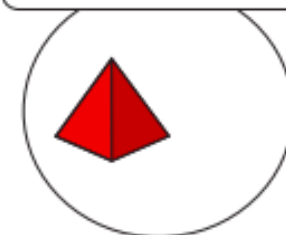


- 3 Tick the shape that could go in both groups.



odd number of faces

even number of vertices



- 4 How have the shapes been grouped?

