

## Week 10 – Place value resources.

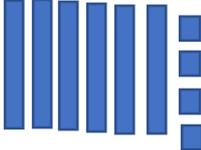
Please be advised each day has different levels of difficulty, worksheets will progressively get harder. The minimum requirement is for one worksheet to be completed a day therefore please choose the appropriate worksheet for your child.

Monday 15<sup>th</sup> June 2020

### Worksheet 1\*

For each number the children need to show how many tens and how many ones and then draw the denes to show this. An example has been given.

Example:

64 = 6 tens and 4 ones = 

1. 23 =
2. 45 =
3. 17 =
4. 65 =
5. 50 =
6. 9 =
7. 99 =
8. 81 =
9. 68 =
10. 94 =

## Worksheet 2\*\*

For each card the children need to follow the instructions and answer each problem. When it says make the number with cubes either use cubes or draw them out as shown in the example.

Example:

5 tens and 5 ones.

Number = 55    Expanded form =  $50 + 5$

Make it using cubes:



**PLACE VALUE**                      Work out :

Expanded form :  $70 + 4 =$

Number ?	How many •tens? •ones?	Now make the tens and ones with your cubes.
-------------	------------------------------	--

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**PLACE VALUE**                      Work out :

3 tens and 3 ones

Number ?	What is the expanded form?	Now make the tens and ones with your cubes.
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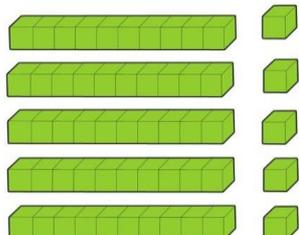
**PLACE VALUE**                      Work out :

Expanded form :  $20 + 9 =$

Number ?	How many •tens? •ones?	Now make the tens and ones with your cubes.
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**PLACE VALUE**                      Work out :



Number ?
How many tens and ones?
What is the expanded form?

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**PLACE VALUE**

Work out :

Number: **75**

What is the expanded form?

How many  
• tens?  
• ones?

Now make the tens and ones with your cubes.



**PLACE VALUE**

Work out :

Number: **18**

What is the expanded form?

How many  
• tens?  
• ones?

Now make the tens and ones with your cubes.



**PLACE VALUE**

Work out :

Expanded form : **80 + 7 =**

Number  
?

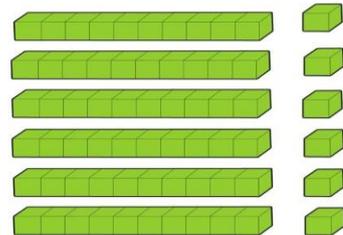
How many  
• tens?  
• ones?

Now make the tens and ones with your cubes.



**PLACE VALUE**

Work out :



Number ?

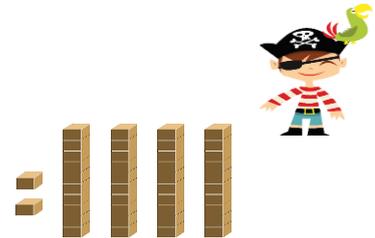
How many tens and ones?

What is the expanded form?

### Worksheet 3\*\*\*

The questions below will use the children's problem solving and reasoning skills. For some questions the children will need to write an answer and for others they will need to explain in sentences.

1. All the ships in the harbour have numbers on them. Captain Pickles' ship has this number on it:



Captain Pickles says his ship number must be 24, is he correct? Explain your answer.

2. Captain Pickles boards his ship. He meets his pirate crew for the first time. The number of pirates in his crew has the same number of tens and ones.

How many pirates could be in my crew?  
Fill in the tens and ones chart to find all the possible answers.



Tens	Ones



- 2b. The number of pirates is between 40 and 50. How many pirates are in his crew?

3. Another ship fires a cannonball and all the pirates run away! Captain Pickles calls them all back, but he's forgotten how many pirates

he has in total!

He counts them in 5s. When he counts, he says the number 18.



Explain why he has counted them incorrectly.

4. It is Polly Parrot's job to fill in the pirate register. Polly says:



$40 + 4 = 404$  pirates in total

Explain the mistake she has made.

Finally, they set sail.



5. Captain Pickles wants someone to be in charge of the anchor. Six pirates line up. All the pirates have a number but they are all mixed up. Order the pirates from smallest to largest and whoever is fourth from the front will get the job!

					
21	3	13	32	23	12

Explain how you ordered them and which number pirate will be in charge of the anchor.



6. There's been a storm. Captain Pickles wants four pirates to scrub the decks. He has written a list of the pirates' numbers. He says:



Each pirate's number on my list is a 2-digit number. The digits of each number add up to 7. None of the digits are 0.

List the numbers of the pirates who are going to scrub the decks.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Now, write their numbers in order from largest to smallest. Then they can stand in order for the Captain.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Answers to worksheet 3.

1. Captain Pickles is not correct. He has 4 tens and 2 ones so his ship is number 42.

2a. The possible numbers of pirates in his crew are:

11, 22, 33, 44, 55, 66, 77, 88, 99

Tens	Ones
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

2b. 44

3. He has counted them incorrectly. If he counts in 5s, he should say: 5, 10, 15, 20 so he should not have said 18.

4. Polly Parrot has combined the numbers incorrectly to make 404. The 40 is 4 tens and 0 ones and 4 is 4 ones so  $40 + 4 = 4$  tens and 4 ones, which is 44. 5. The order of the pirates from smallest to largest should be: 3, 12, 13, 21, 23, 32. So pirate twenty-one is 4<sup>th</sup> from the front and will be in charge of the anchor.

6. Possible answers: 16, 25, 34, 43. From largest to smallest 43, 34, 25, 16.

**Tuesday 16<sup>th</sup> June 2020**

For the below worksheets the children need to draw an arrow to show where they estimate the number will be. As previously, the worksheets will get progressively harder.

**Worksheet 1\***

Date \_\_\_\_\_

Name \_\_\_\_\_



## **Representing Numbers**

LO: to represent a number on a number line

Draw an arrow to show the following numbers on the 0-100 number lines:

a) 45



b) 13



c) 98



d) 75



e) 26



f) 57



g) 24



h) 87



## Worksheet 2\*\*

Date \_\_\_\_\_

Name \_\_\_\_\_



### Representing Numbers

LO: to represent a number on a number line

Draw an arrow to show the following numbers on the following number lines:

a) 73



b) 85



c) 35



d) 19



e) 44



f) 57



g) 62

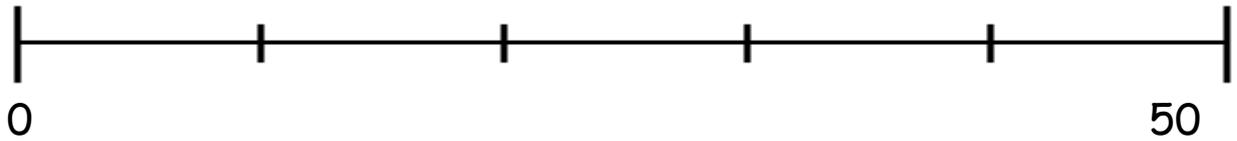


h) 81

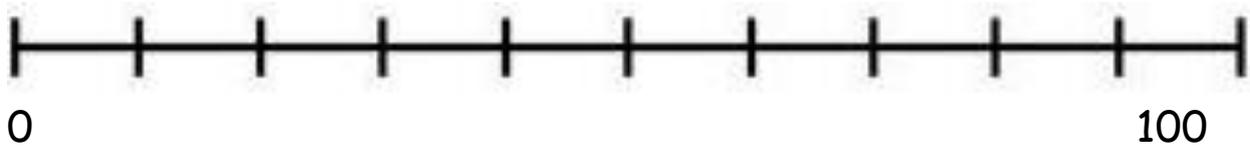


Worksheet 3\*\*\*

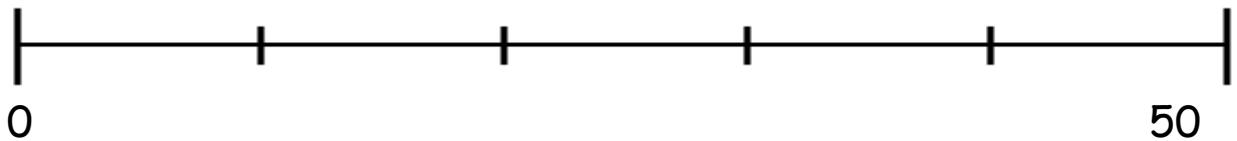
Place **20** on the number line.



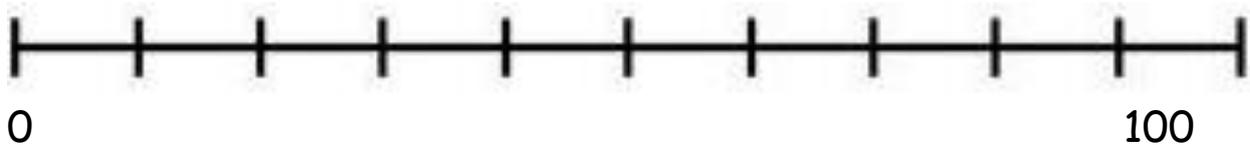
Place **30** on the number line.



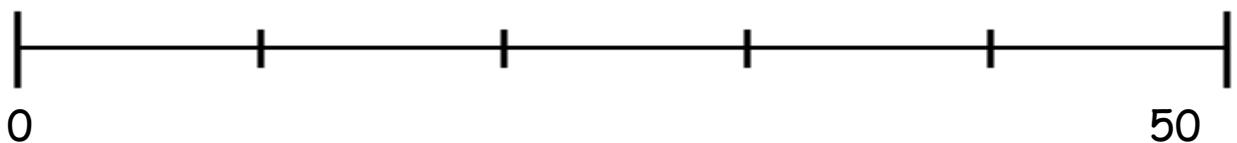
Place **10** on the number line.



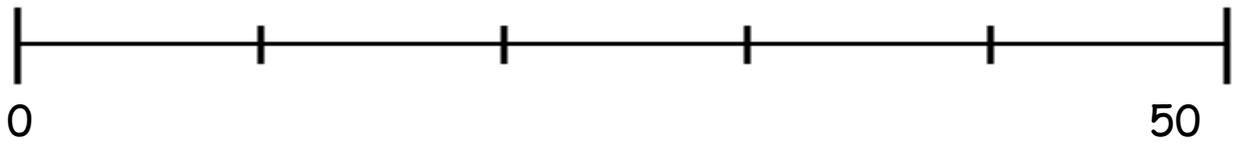
Place **45** on the number line.



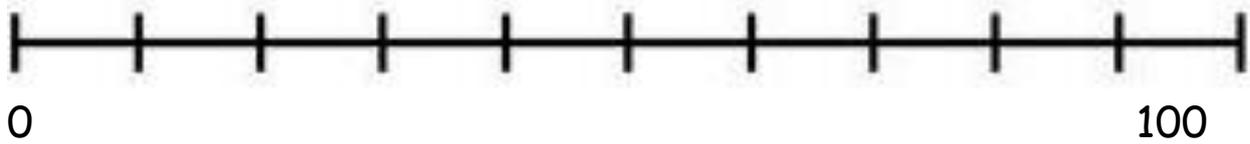
Place **25** on the number line.



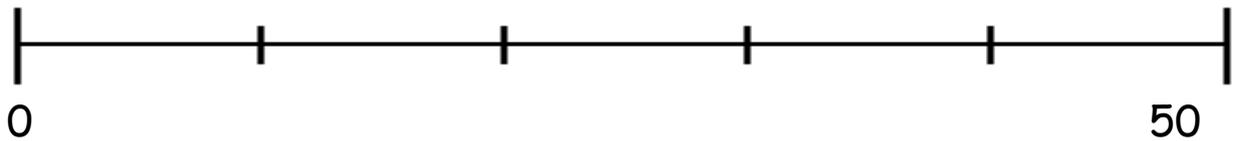
Place **5** on the number line.



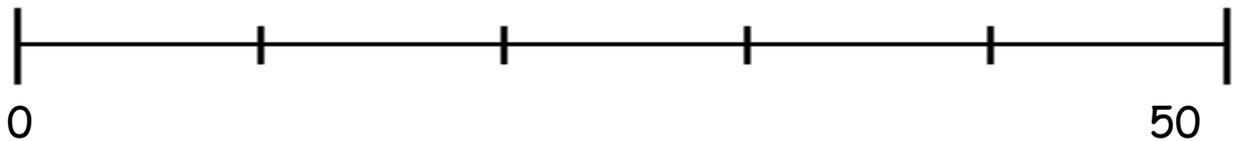
Place **95** on the number line.



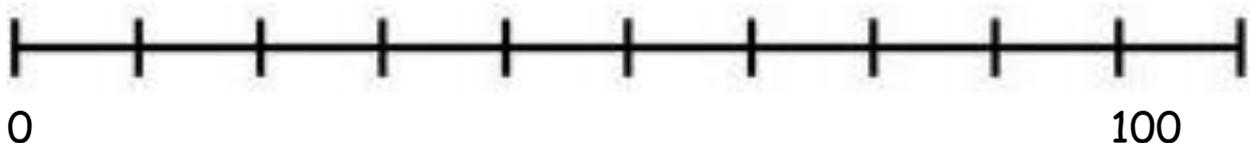
Place **11** on the number line.



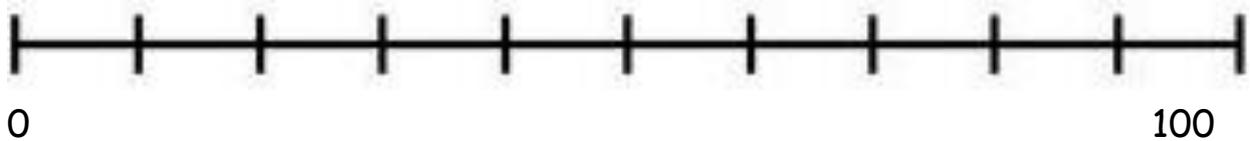
Place **32** on the number line.

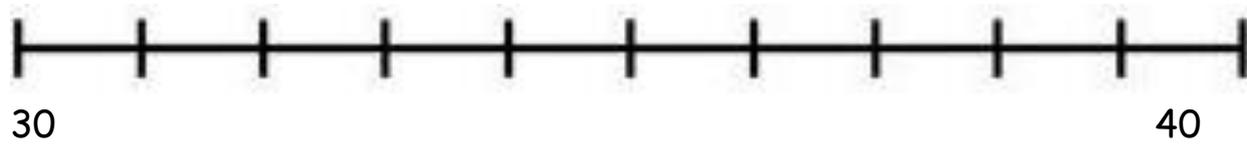
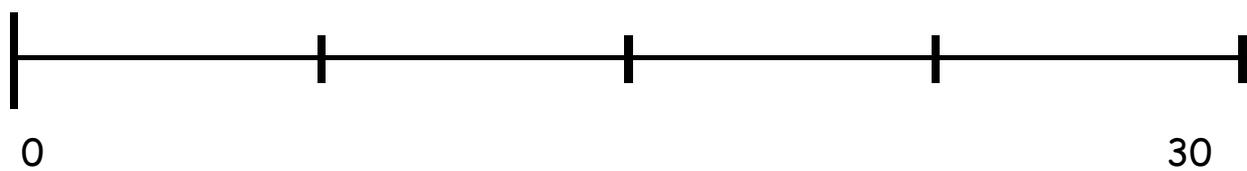


Place **48** on the number line.



Place **36** on all the number lines.





Wednesday 17<sup>th</sup> June 2020

Today the children will be looking at greater than and less than.

Worksheet 1\*

Compare these numbers. Write the number shown by the pictures then circle whether it is more than, less than or equal to.  
The first one is an example.



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Extension: Can you order all of the above numbers from the smallest to largest.

# Greater Than or Less Than

Put the correct sign (<, > or =) between these numbers.  
Remember – the crocodile always eats the bigger number!

12

35

43

47

3+6

10

20+8

25

46

30+16

88

70+17

22+3

20+1

18

20

88

91

70+12

83

21+11

32

58

47+10

10+2

7+5

16+3

12+6

### Worksheet 3\*\*\*

Work out the answers to the below questions. Use the  $<$ ,  $>$  or  $=$  sign to write a sentence. E.g.  $45 > 32$

1. Miss Slater has 35 pencils, Mrs Bennett has 14 more. Use the signs above to compare their amounts.
2. Mark says  $23 + 12 < 21 + 16$ . Is he correct?
3. Use a ruler to measure the length of two objects in your house in cm. Write a number sentence using the signs above.
4. Use some scales in your house and weigh to objects in your house. Write a number sentence using the signs above.
5. George has a 20p, 5p, 10p and 50p. Mike has £1, 5p and 2p. Write a sentence to compare their amounts.
6. Write a sentence to compare the ages of the children in each household.  
Blue house ages:  $7 + 12 + 9$   
Green house ages:  $6 + 2 + 15$
7.  $54 - 12 = 56 - 14$ . Is this correct?  
Write the correct symbol for the below sentences.
8.  $3 \times 2$  \_\_\_\_\_  $2 \times 5$
9.  $5 \times 5$  \_\_\_\_\_  $8 \times 5$
10.  $10 \times 2$  \_\_\_\_\_  $5 \times 4$

Thursday 18<sup>th</sup> June 2020

Worksheet 1\*

Today children are writing numbers in words. Worksheet three will be problem solving. If your child can confidently write numbers in words then worksheet 3 should be completed.

Write the numbers below in words. Children need to try their best to ensure the numbers are spelt correctly.

## Writing Numbers in English

0 - zero	19 - nineteen	
1 - one	20 - twenty	
2 - two	21 - twenty-one	
3 - three	30 - thirty	
4 - four	40 - forty	
5 - five	50 - fifty	
6 - six	60 - sixty	
7 - seven	70 - seventy	
8 - eight	80 - eighty	
9 - nine	90 - ninety	
10 - ten	100 - hundred	
11 - eleven	 good	
12 - twelve		
13 - thirteen		
14 - fourteen		
15 - fifteen		 so so
16 - sixteen		
17 - seventeen		 needs more practice
18 - eighteen		

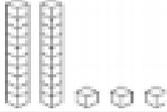
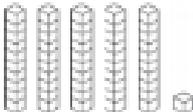
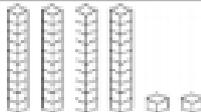
Write the numbers in English.

27	twenty-seven
1	
46	
12	
35	
23	
44	
28	
51	
14	
5	
22	
66	
52	
69	

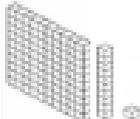
## Worksheet 2\*\*

### Reading and Writing Numbers to 100 Worksheet

Can you fill out any missing boxes for each of the numbers below? The first one has been done for you to show you what to do.

Numerals	Number in Words	Tens	Ones	Illustration
23	twenty-three	2	3	
17	seventeen			
34				
	fifty-six	5	6	
		5	1	
49				
	eighty three			
				
		7	7	

### Challenge

Numerals	Number in Words	Hundreds	Tens	Ones	Illustration
					

### Worksheet 3\*\*\*

This is an investigation for the children, once you have explained this to them please let them complete this independently at first and see what they can produce and then if they are really struggling you may help.

Here is a maths trick to try:

1. Think of one of the numbers from 1 to 9.
2. Add 9 to your number.
3. Add the digits of your answer together. What is your new number?

For example:

- $1 + 9 = 10$
- $1 + 0 = 1$

Investigate what do you notice? Is there a pattern?

Try the trick with every number between 1 and 9.

4. Jonas says: I think you will always get back to your original number because adding 9 is the same as adding 10 and subtracting 1. Do you agree with him?

## Year 2 Spring 2 Maths Activity Mat 3

### Section 1

$14 + \square = 20$

$\square - 8 = 15$

$4 \times \square = 40$

### Section 2

What 3D shape has no vertices?

### Section 3

What is the next day?

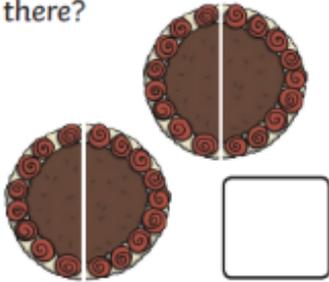
Tuesday, Wednesday, Thursday,

### Section 4

Which two coins add up to 12p?

### Section 5

How many halves are there?



### Section 6

Use the correct unit of measure for time.

The song lasted for four

### Section 7

Are the numbers below odd or even? Write O (odd) or E (even) for your answer.

$22 = \square$

$15 = \square$

$9 = \square$

### Section 8

7 is  less than 15.

## Year 2 Spring 2 Maths Activity Mat 3 Answers

### Section 1

$14 + 6 = 20$

$23 - 8 = 15$

$4 \times 10 = 40$

### Section 2

What 3D shape has no vertices?

sphere

### Section 3

What is the next day?

Tuesday, Wednesday, Thursday,

Friday

### Section 4

Which two coins add up to 12p?

10p + 2p

### Section 5

How many halves are there?

4

### Section 6

Use the correct unit of measure for time.

The song lasted for four

minutes

### Section 7

Are the numbers below odd or even? Write O (odd) or E (even) for your answer.

$22 = E$

$15 = O$

$9 = O$

### Section 8

7 is 8 less than 15.

## Year 2 Spring 2 Maths Activity Mat 3

### Section 1

$$26 + \square = 50$$

$$\square - 23 = 11$$

$$8 \times \square = 40$$

### Section 2

What 3D shape has six identical faces?

### Section 3

What is the previous day?

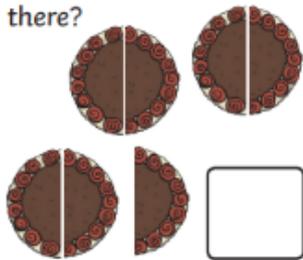
, Tuesday,  
Wednesday, Thursday

### Section 4

Which three coins add up to 16p?

### Section 5

How many halves are there?



### Section 6

Use the correct unit of measure for time.

The plane journey to America lasted for seven

### Section 7

Are the numbers below odd or even? Write O (odd) or E (even) for your answer.

$$57 = \square$$

$$82 = \square$$

$$61 = \square$$

### Section 8

16 is  less than 32.

## Year 2 Spring 2 Maths Activity Mat 3 Answers

### Section 1

$$26 + 24 = 50$$

$$34 - 23 = 11$$

$$8 \times 5 = 40$$

### Section 2

What 3D shape has six identical faces?

cube

### Section 3

What is the previous day?

Monday, Tuesday,  
Wednesday, Thursday

### Section 4

Which three coins add up to 16p?

10p + 5p + 1p

### Section 5

How many halves are there?

7

### Section 6

Use the correct unit of measure for time.

The plane journey to America lasted for seven

hours

### Section 7

Are the numbers below odd or even? Write O (odd) or E (even) for your answer.

$$57 = \text{O}$$

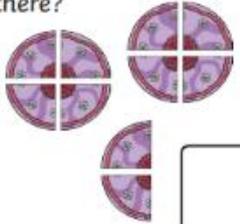
$$82 = \text{E}$$

$$61 = \text{O}$$

### Section 8

16 is 16 less than 32.

## Year 2 Spring 2 Maths Activity Mat 3

<p><b>Section 1</b></p> $56 + \square = 82$ $\square - 19 = 17$ $9 \times \square = 45$	<p><b>Section 2</b></p> <p>What 3D shape has two triangular faces and three rectangular faces?</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin-top: 10px;"></div>	<p><b>Section 3</b></p> <p>What is the next day in the sequence?</p> <p>Wednesday, Friday, Sunday,</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin-top: 10px;"></div>	<p><b>Section 4</b></p> <p>Which three coins add up to £2.60?</p> <div style="border: 1px solid black; width: 150px; height: 30px; margin-top: 10px;"></div>
<p><b>Section 5</b></p> <p>How many quarters are there?</p>  <div style="border: 1px solid black; width: 50px; height: 30px; margin-top: 10px;"></div>	<p><b>Section 6</b></p> <p>Use the correct unit of measure for time.</p> <p>The oak tree took three</p> <div style="border: 1px solid black; width: 150px; height: 20px; margin-top: 5px;"></div> <p>to grow as tall as my swing.</p>	<p><b>Section 7</b></p> <p>Are the numbers below odd or even? Write O (odd) or E (even) for your answer.</p> <p>103 = <input type="text"/></p> <p>152 = <input type="text"/></p> <p>98 = <input type="text"/></p>	<p><b>Section 8</b></p> <p>57 is <input type="text"/> less than 73.</p>

## Year 2 Spring 2 Maths Activity Mat 3 Answers

<p><b>Section 1</b></p> $56 + 26 = 82$ $36 - 19 = 17$ $9 \times 5 = 45$	<p><b>Section 2</b></p> <p>What 3D shape has two triangular faces and three rectangular faces?</p> <p style="text-align: center;">Triangular prism</p>	<p><b>Section 3</b></p> <p>What is the next day in the sequence?</p> <p>Wednesday, Friday, Sunday,</p> <p style="text-align: center;">Tuesday</p>	<p><b>Section 4</b></p> <p>Which three coins add up to £2.60?</p> <p style="text-align: center;">£2 + 50p + 10p</p>
<p><b>Section 5</b></p> <p>How many quarters are there?</p> <p style="text-align: center;">10</p>	<p><b>Section 6</b></p> <p>Use the correct unit of measure for time.</p> <p>The oak tree took three</p> <p style="text-align: center;">years</p> <p>to grow as tall as my swing.</p>	<p><b>Section 7</b></p> <p>Are the numbers below odd or even? Write O (odd) or E (even) for your answer.</p> <p>103 = <input type="text" value="O"/></p> <p>152 = <input type="text" value="E"/></p> <p>98 = <input type="text" value="E"/></p>	<p><b>Section 8</b></p> <p>57 is <input type="text" value="16"/> less than 73.</p>