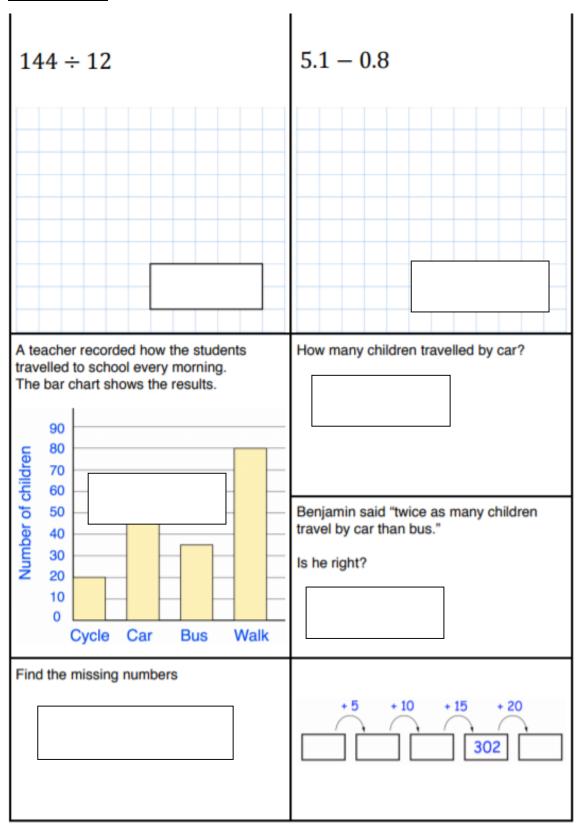
# Monday- 5 a day



Tuesday- 5 a day

2,056 +	362		138 ÷ 6			
	tched a football m					
nound 4,637 to	o the nearest 100	Sleeps	Docking	Detro		
	name		Decking	Price		
	Flamingo	2	Yes	£345		
	Albatross Penguin	6	Yes Yes	£529 £559		
	Pelican	4	No	£475		
	Seagull	8	No	£699		
	100000000000000000000000000000000000000		1.10	NAME OF TAXABLE PARTY.		

# Wednesday- 5 a day

	75
90,000 — 800	3500 ÷ 100
A song lasts 2 minutes 45 seconds.  How long does the song last in seconds?	
Paris  Cork  London  Swansea  Key = 4 hours	How many hours of sunshine did <b>Paris</b> have?
Which city had the least amount of sunshine?	How many more hours of sunshine did Cork have than Swansea?

# Thursday- 5 a day

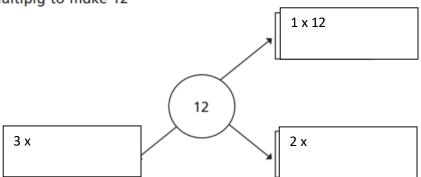
	7117
187 + 408 + 620	16 × 3 = 4 ×
Circle the angle that is obtuse 35° 56° 88° 91°	
What percentage of the shape is shaded?	
Kayleigh has 50 pence, 20 pence and 10 pence pieces.  She has 12 of each type of coin.  How much money does she have in total?	50

# Friday- 5 a day

	747
0.6 + 0.6 + 0.6	7 – 11
Traly	Which country has the highest population?
Which country has the smallest population?	What is the value of the digit 7 in Thailand's population?
Mr Jenkins has £9,561.  He buys a new car that costs £7,750.  How much money does he have left?	

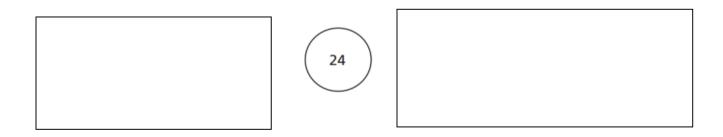
Task 2

 a) Complete the diagram to show the pairs of numbers that multiply to make 12



List all the factors of 12

**b)** Draw a similar diagram to show the pairs of numbers that multiply to make 24



List all the factors of 24



2) Alex arranges 16 counters in different ways.

She is trying to work out some factors.



a) Use the array to complete the sentence.



3)	
	Alex rearranges the counters.
	How does this array show that 5 is not a factor of 16?
4)	
	a) List all the factors of 32
	b) How can you check that you have found all the factors?

				,		17 (11115)	101112 21				
Task	3										
1)											Answer
a)	Circle	the fo	actors o	f 30							
	5	15	25	3	30	4	2	12	60	0	
b)	These	numk	oers are	all fa	ctors o	f a 2-c	ligit nu	ımber.			
				1	3	5	9				
	What	could	the nu	mber l	be?						
2)	Am	ir and	Eva ar	e descr	ibing r	numbe	rs usin	g factoi	rs.		
		Amir		does	umber not har factors	lies	1y num betwee 25. It o	en 20 Inly has			5

a) Is Amir correct?

Explain your answer.

**b)** What number is Eva thinking of?

Eva

3) Which number has the mo	st facto	ors? Tick your	answer.	
	64	48	Ansv	wer
4) True or false?				
2 and 5 are factor pairs of 10. True or false?		3 and 6 are fac	ctors of 15. True or	false?
7 and 2 are factor pairs of 72. True or false?		0 and 3 are facto	or pairs of 30. True o	or false
Is this statement always, so A number will always have factors come in factor pair.  Answer and explanation	e an ev			

# Challenge

1) Can you find the abundant numbers up to 100?



The abundant numbers I have found are:

To find the **factors** of a number, you have to find **all** the pairs of numbers that multiply together to give that number.

The factors of  $48\ \mathrm{are}$ :

- 1 and 48
- 2 and 24
- 3 and 16
- $4 \ \mathsf{and} \ 12$
- 6 and 8

If we leave out the number we started with, 48, and add all the other factors, we get 76:

$$1+2+3+4+6+8+12+16+24=76$$

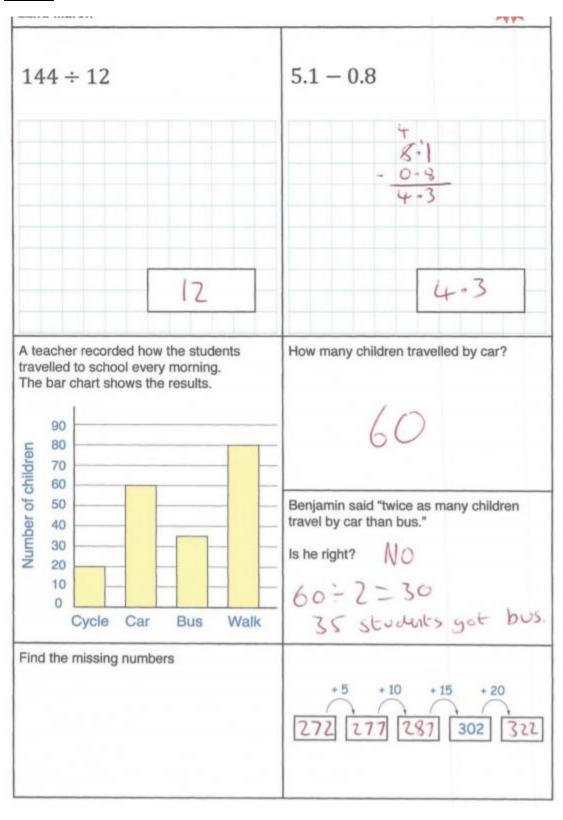
So  $\dots$  48 is called an **abundant** number because it is less than the sum of its factors (without itself). (48 is less than 76.)

See if you can find some more abundant numbers!

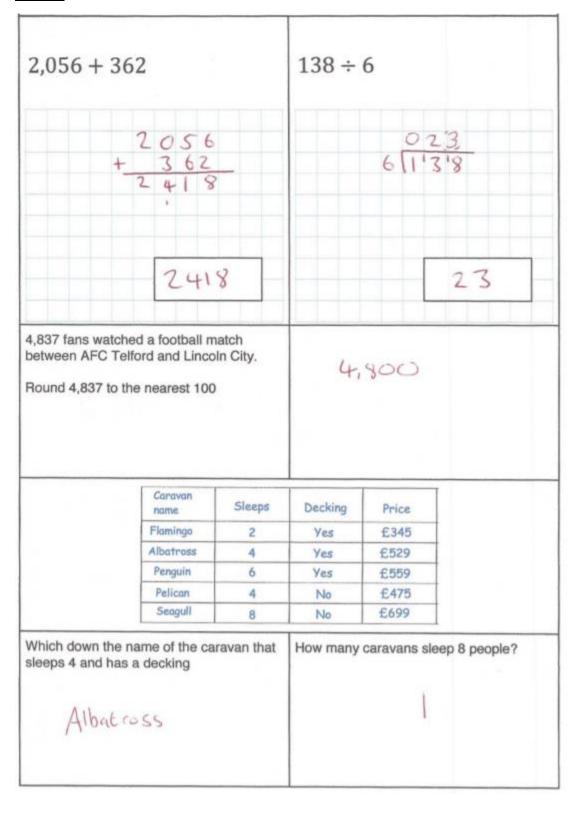
)	How do we know that these statements are true?
	a) 5 is a factor of 195 but not a factor of 196
	b) 3 is a factor of 177 but not a factor of 178

# ANSWERS

### **Monday**



# **Tuesday**



# Wednesday

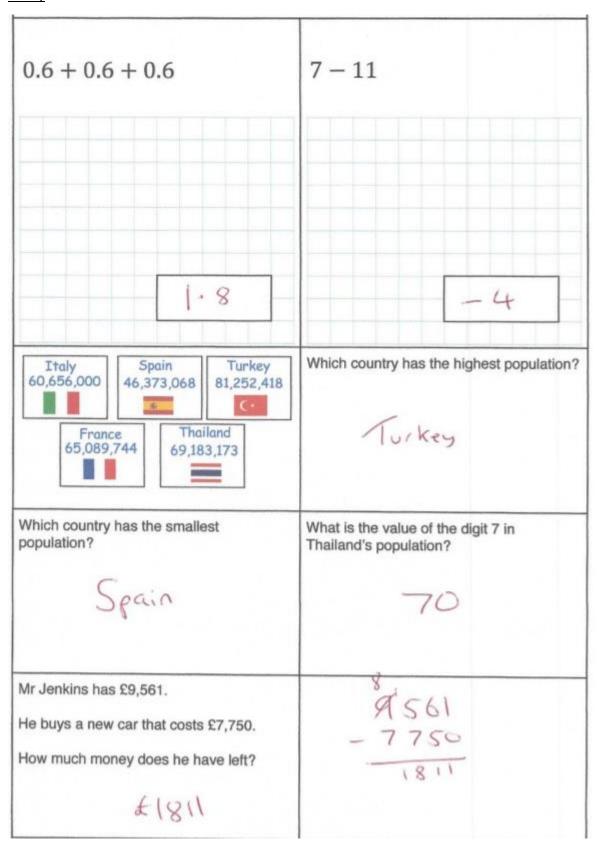
	2.11
90,000 - 800	3500 ÷ 100
89200	
89700	35
A song lasts 2 minutes 45 seconds.  How long does the song last in seconds? $2 \times 60 = 170$ $170 + 45 = 165$	165 seconds
Faris	How many hours of sunshine did Paris have?
Which city had the least amount of sunshine?	How many more hours of sunshine did Cork have than Swansea?

# YEAR 5 – MATHS HOME LEARNING

# <u>Thursday</u>

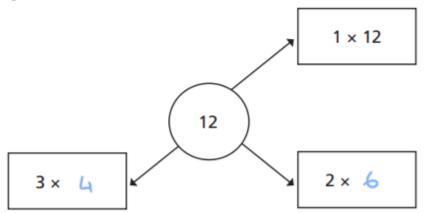
187 + 408 + 620	16 ×	3 =	: 4	×	l	2	
620		1 6			4		2
1215					17	2	
35° 56° 88° 91°							
What percentage of the shape is shaded?							
What percentage of the shape is shaded?							

# **Friday**



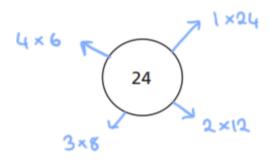
# Task 2

a) Complete the diagram to show the pairs of numbers that multiply to make 12



List all the factors of 12

b) Draw a similar diagram to show the pairs of numbers that multiply to make 24



List all the factors of 24

1, 2, 3, 4, 6, 8, 12, 24

2) Alex arranges 16 counters in different ways. She is trying to work out some factors. a) Use the array to complete the sentence. are both factors of 16 Alex rearranges the counters. 3) How does this array show that 5 is not a factor of 16? The bottom row isn't complete a) List all the factors of 32 4) ل 8 16,32 b) How can you check that you have found all the factors?

Use counters to arrange 32 in different arrays.

Check against the times tables

# Task 3

1)

a) Circle the factors of 30

5 15 25 3 30 4 2 12 60

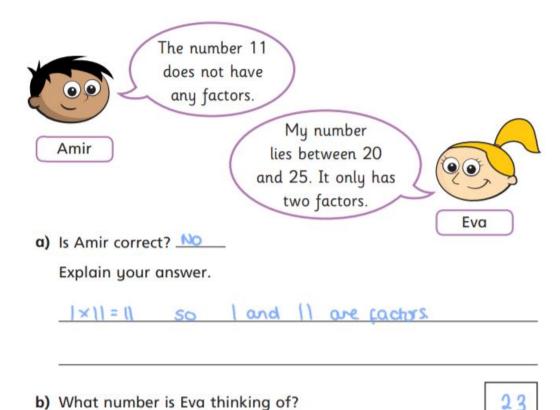
b) These numbers are all factors of a 2-digit number.

1 3 5 9

What could the number be?

45

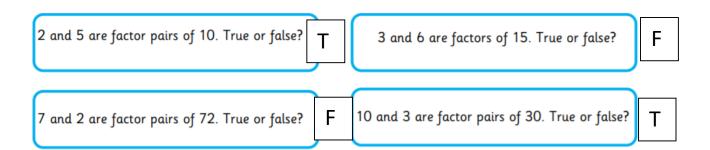
2) Amir and Eva are describing numbers using factors.



Which number has the most factors? Tick your answer.

3) **64 48** 

4)



5)

A number will always have an even number of factors because factors come in factor pairs.

### Task 3- Answers

1)

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	<mark>26</mark>	<mark>27</mark>	28	29	30
31	32	<mark>33</mark>	<mark>34</mark>	<mark>35</mark>	36	37	38	39	40
41	42	43	<mark>44</mark>	<mark>45</mark>	<mark>46</mark>	47	48	<mark>49</mark>	<mark>50</mark>
51	<u>52</u>	53	54	<b>55</b>	56	<u>57</u>	<mark>58</mark>	59	60
61	<mark>62</mark>	<mark>63</mark>	<mark>64</mark>	<mark>65</mark>	66	67	<mark>68</mark>	<mark>69</mark>	70
71	72	<b>73</b>	<mark>74</mark>	<mark>75</mark>	<mark>76</mark>	<mark>77</mark>	78	79	80
81	82	83	84	85	86	<mark>87</mark>	88	89	90
91	92	93	94	95	96	97	98	99	100

prime numbers not abundant numbers perfect numbers

abundant numbers

There are twenty two abundant numbers on our 100 square.

2)

How do we know that these statements are true?

a) 5 is a factor of 195 but not a factor of 196

more than a multiple of 5 so 5 isn't a factor.

b) 3 is a factor of 177 but not a factor of 178

1+7+7=15 15 is a multiple of 3 so 3 is a factor of 177 therefore not a cactor of 178

c) 20 is a factor of 180 but not a factor of 190

180 ÷ 20 = 9 190 is 10 more than 180 so 20 can't be a factor.