# **Mathematics**

Reception, KS1 and KS2 5<sup>th</sup> and 7<sup>th</sup> July 2023

# Reception



# Lesson 1 Counting



Ask the people in your family to put their hands out in front of them. How many fingers are there altogether?

Reception Can you count the total number of fingers by counting in 2's and 5's?



## Adding using objects

- 1. Get 2 bowls
- 2. Put 3 small objects in one bowl and 2 in the other
- 3. Count how many you have altogether!
- 4. Try again using different amounts of objects.

Reception: Can you write the number sentence?



# Reception

# Lesson 3 Sequencing



Can you discuss and draw pictures of things you do throughout the day in the correct order using the words 'morning', 'afternoon' and 'night' eg in the morning I get dressed etc

<u>Reception</u> Could you identify some o'clock times with things you do eg at 5 o'clock I eat my dinner etc

# **Reception Lesson** 4

Taller and shorter

Choose one of your teddies or dolls.

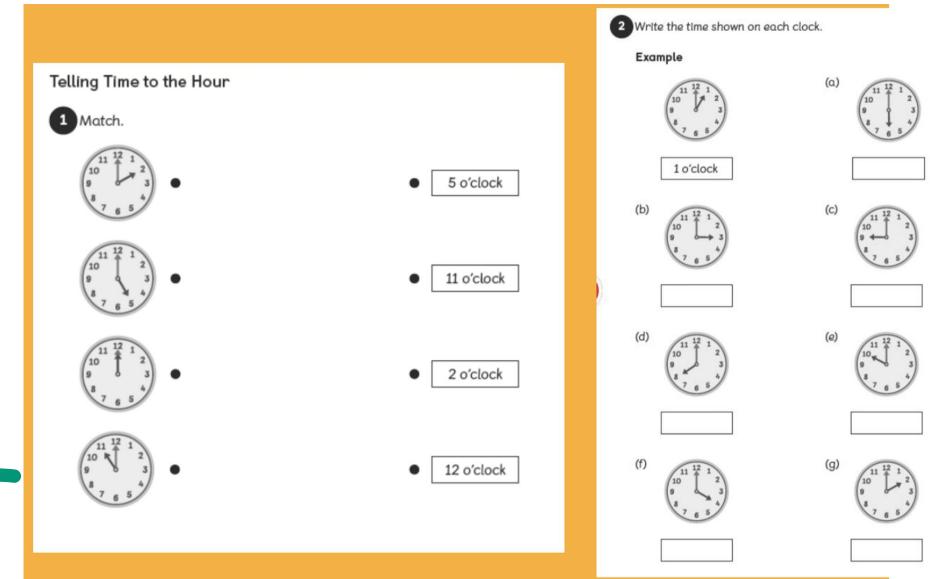
Can you find 3 things taller and 3 things shorter than your toy?

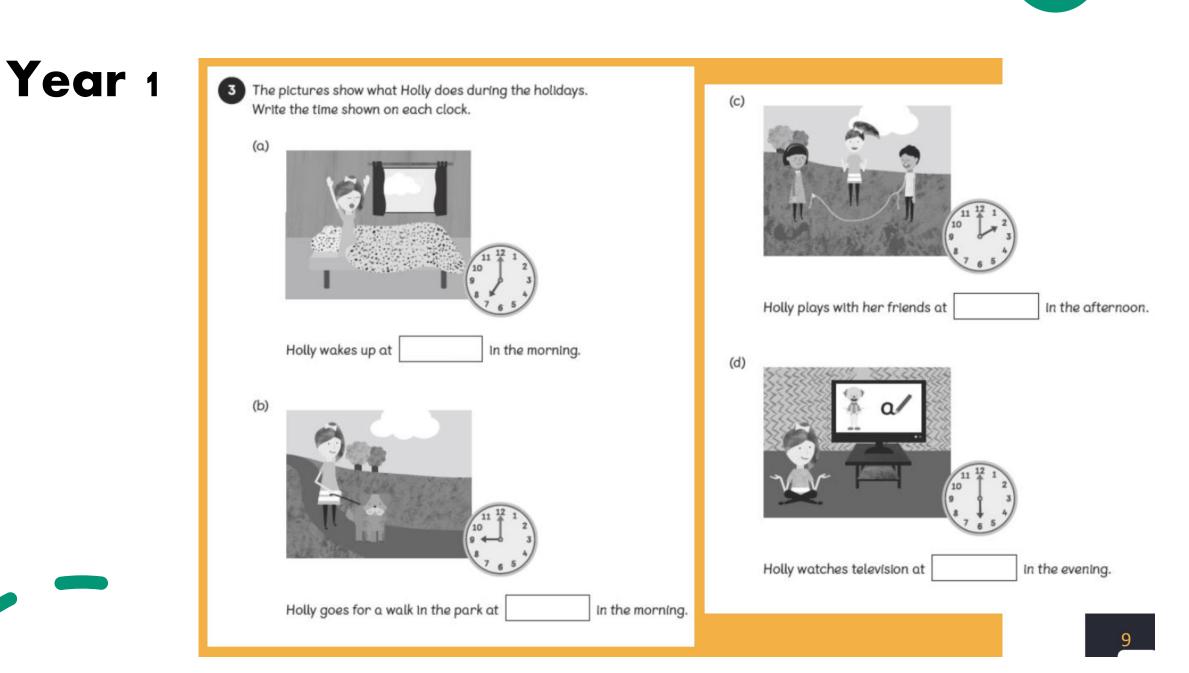
Can you draw them?

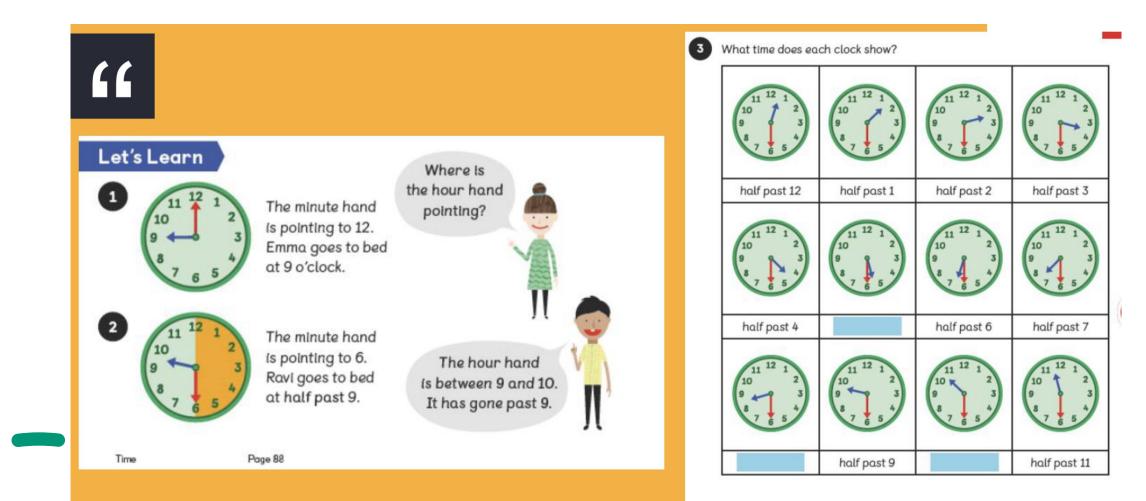
Reception: Can you find something **heavier** and **lighter** than your toy?

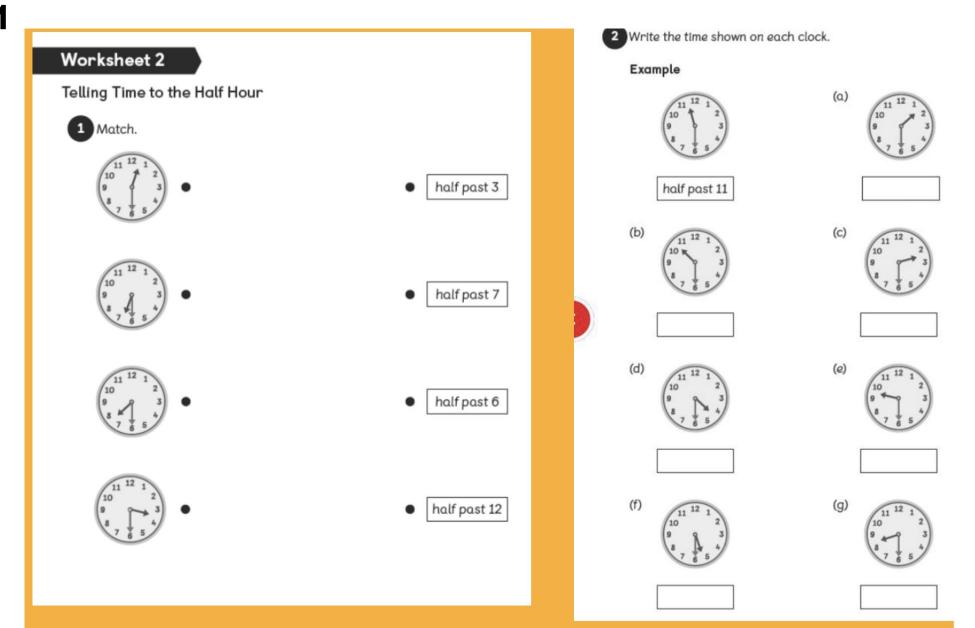
### Year 1 2 What time does each clock show? " Charles Charles Let's Learn 1 12 o'clock 10 Can you tell if it is morning, afternoon, evening or night from the clock? 4 o'clock This is the minute hand. This is the hour hand. The minute hand is pointing to 12. 8 o'clock The hour hand is pointing to 8. The time is 8 o'clock.

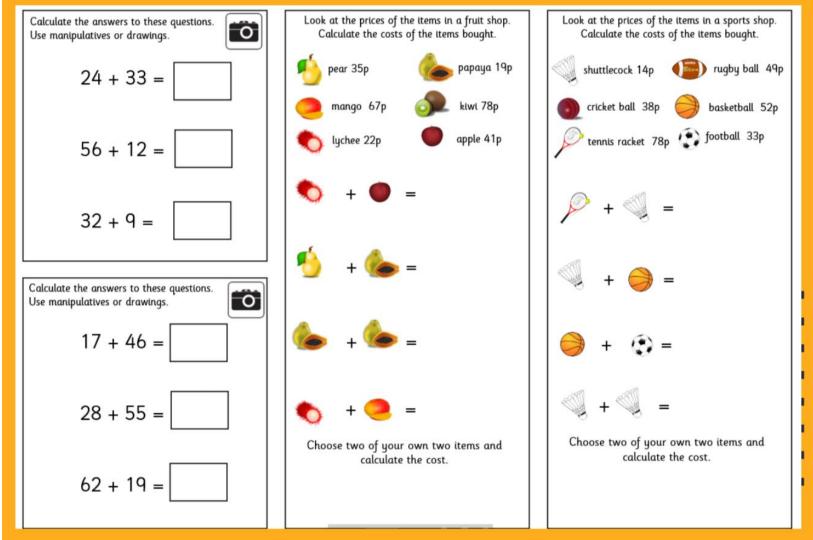
2 o'clock 3 o'clock 10 5 o'clock 7 o'clock 9 o'clock 10 o'clock

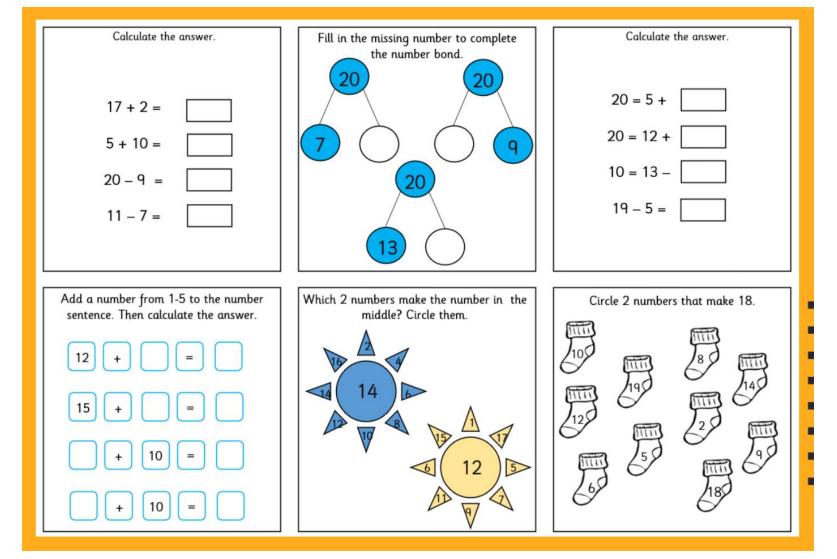


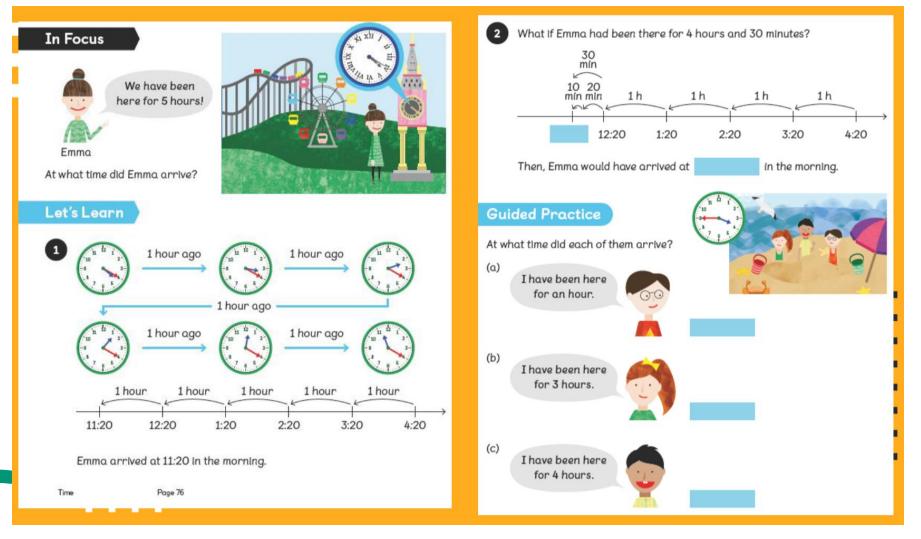










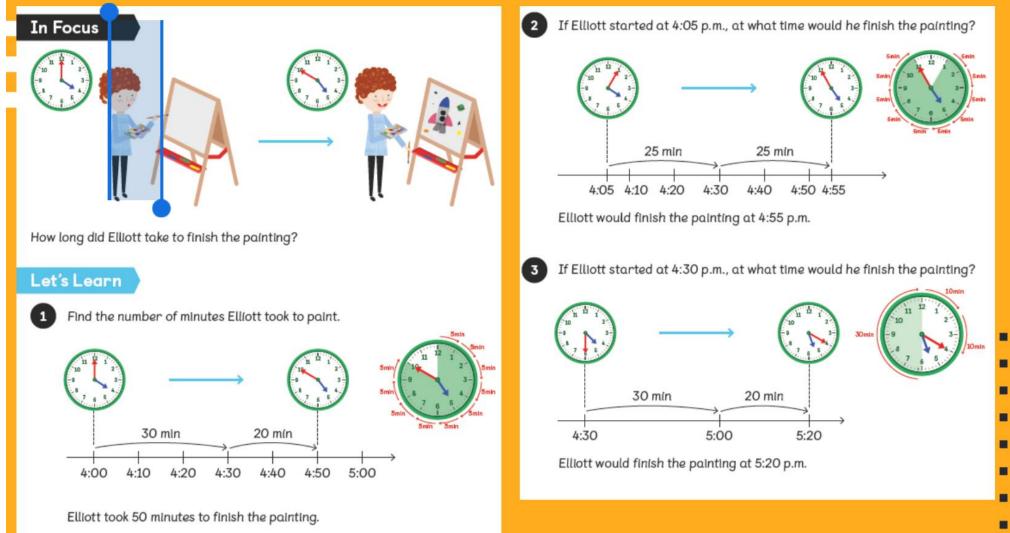


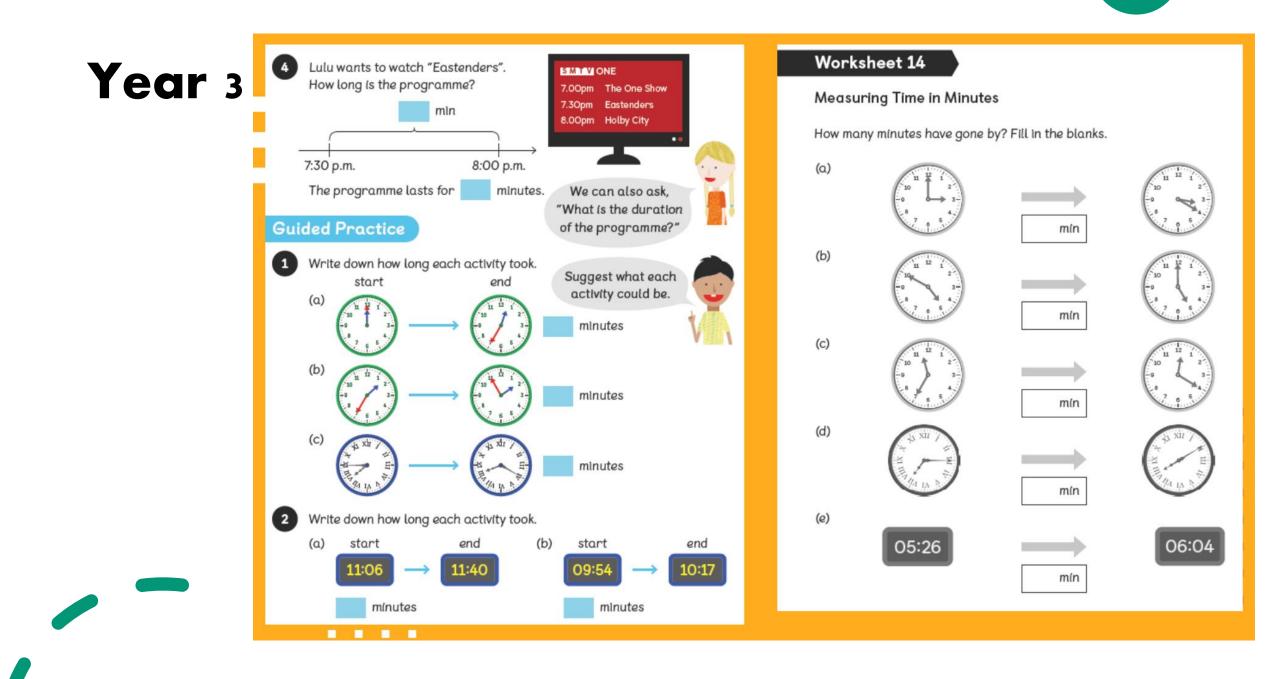
#### Measuring Time in Hours

Elliott, Emma, Amira and Hannah completed their homework at the same time: at 2:48 p.m. What time did each of them start doing it? Fill in the blanks with the correct time.

name	start time	time spent	end time
Elliott		I spent 3 hours doing my homework.	
Emma		I did my my homework for 4 hours.	2:48 p.m.
Amira		I only spent 1 hour on my homework.	
Hannah		I worked for 2 hours and 30 minutes.	

# Year 3





# Year 4 In Focus Look at Emma's number pattern. 277 377 477 577 677 777 177 ? What is the next number in the pattern?

#### **Making Number Patterns**

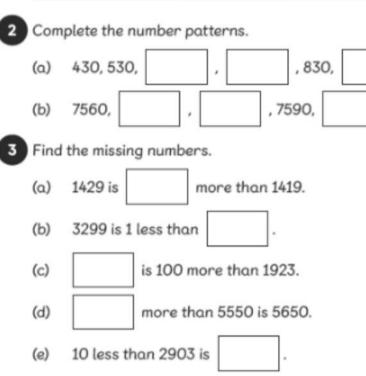


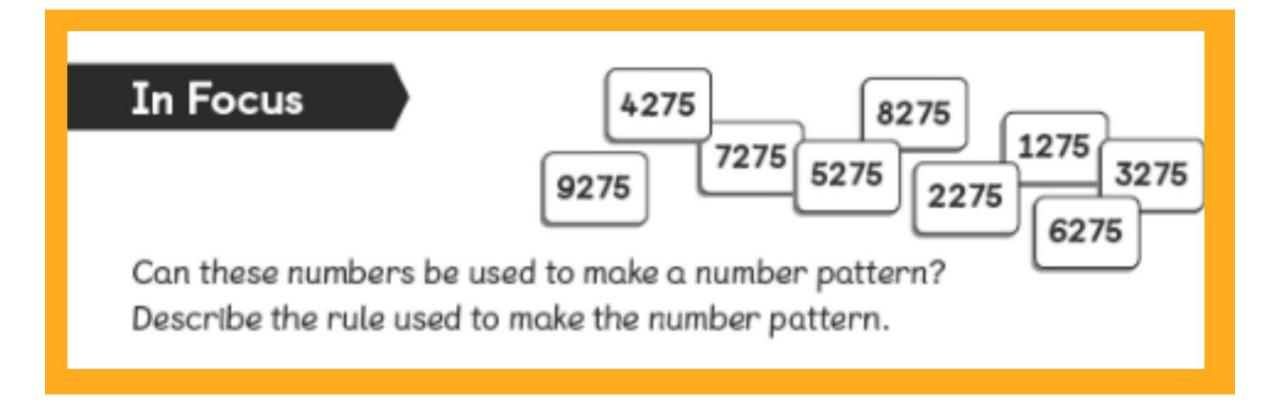
1 Complete the table.

Number	1 more than the number	10 more than the number	100 more than the number
5938			
8999			

Number	1 less than the number	10 less than the number	100 less than the number
4818			
2791			

, 7610







#### Making Number Patterns



2

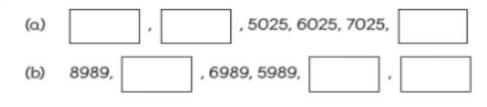
There are 1295 pupils in School A.

There are 1000 fewer pupils in School B than there are in School A. There are 1000 more pupils in School C than there are in School A.

- (a) How many pupils are there in School B?
- (b) How many pupils are there in School C?



Complete the number patterns.



Find the missing numbers.

- (a) 1000 more than 4938 is
- (b) 5467 is less than 6467.
- (c) 6215 is 1000 more than
- (d) is 1000 less than 2871.
- (e) 8627 is 1000 less than

**Finding Prime Numbers** 

								-	
1	Circle al	l the	numbers	that	have	only	two	factors.	
-	011 010 01					0.111			

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

The prime numbers less than 50 are:



2 Ruby finds the factors of 9 as shown below.

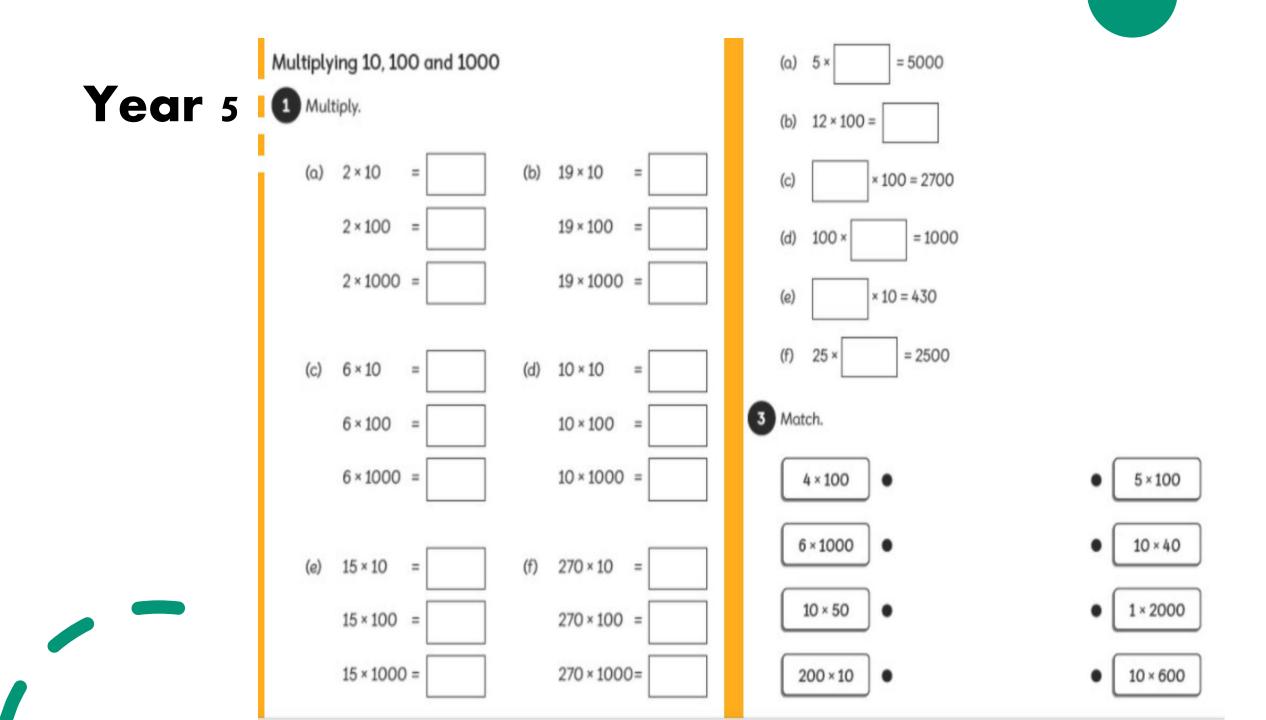
 $9 = 1 \times 9$  $9 = 3 \times 3 = 3^2$ 

Use Ruby's method to write the factors of each of these numbers.

(a) 16

25 (b)

64 (c)

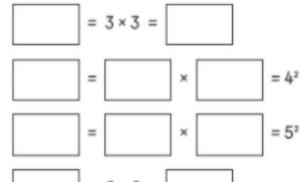


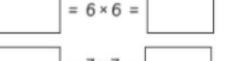
### Worksheet 6

Finding Square and Cube Numbers

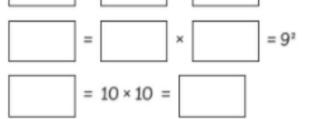
1 Find the square numbers and then fill in the blanks.

$$4 = 2 \times 2 = 2^2$$



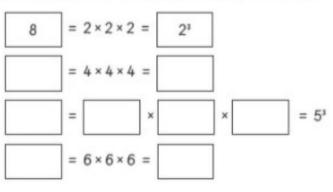






 $= 8^{2}$ 

2 Find the cube numbers and then fill in the blanks.



<sup>3</sup> Sam writes 18 as a product of prime numbers as shown below.

 $18 = 2 \times 9$ = 2 × 3 × 3 = 2 × 3<sup>2</sup>

Use Sam's method to write these numbers as a product of prime numbers:



### Solving Word Problems

1

Year 6

A bakery sells its doughnuts in packs of 3 or 9 each.



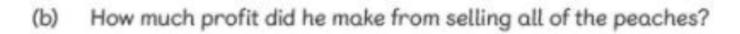
(a) Elliott spent £44 on doughnuts. What is the largest number of doughnuts he could buy?

(b) Ruby bought 33 doughnuts. What is the smallest amount of money she had to pay?

2

A grocer bought 12 crates of peaches at £48 per crate. There are 25 peaches in each crate. He packed all the peaches in boxes of 5 and sold them at £14 per box.

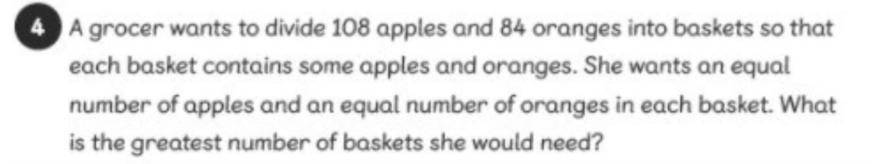
(a) How much did he get from selling all of the peaches?







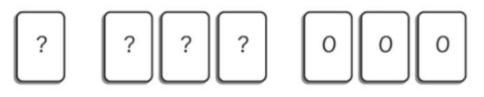
Two wooden planks measuring 180 cm and 200 cm are both cut into equalsized pieces. What is the longest each piece could measure?



3 Circl	3 Circle the greatest number.									
(a)	6 782 600	6 872 000	6 678 200	6 867 200						
(b)	2 798 003	2 987 003	2 897 003	2 789 003						
4 Circl	e the smallest nur	nber.								
(a)	2 364 789	2 436 789	2 439 876	2 346 789						
(b)	7 477 400	7 747 400	7 774 400	7 744 700						
5 Fill in	1 the blanks with >	or <.								
(a)	1 200 569	1 20	5 096							
(b)	4 566 700	4 65	6 007							
(c)	6 933 057	5 976	6 330							
(d)	8 957 605	9 00	0 002							

#### Comparing and Ordering Numbers to 10 Million

1 Make six 7-digit numbers by using the digits 5, 5, 6 and 6 to fill in the blanks. Then arrange the numbers from the smallest to the greatest.





2 Make five 7-digit numbers by using the digits 1, 1, 1, 1 and 9 to fill in the blanks. Then arrange the numbers from the greatest to the smallest.

