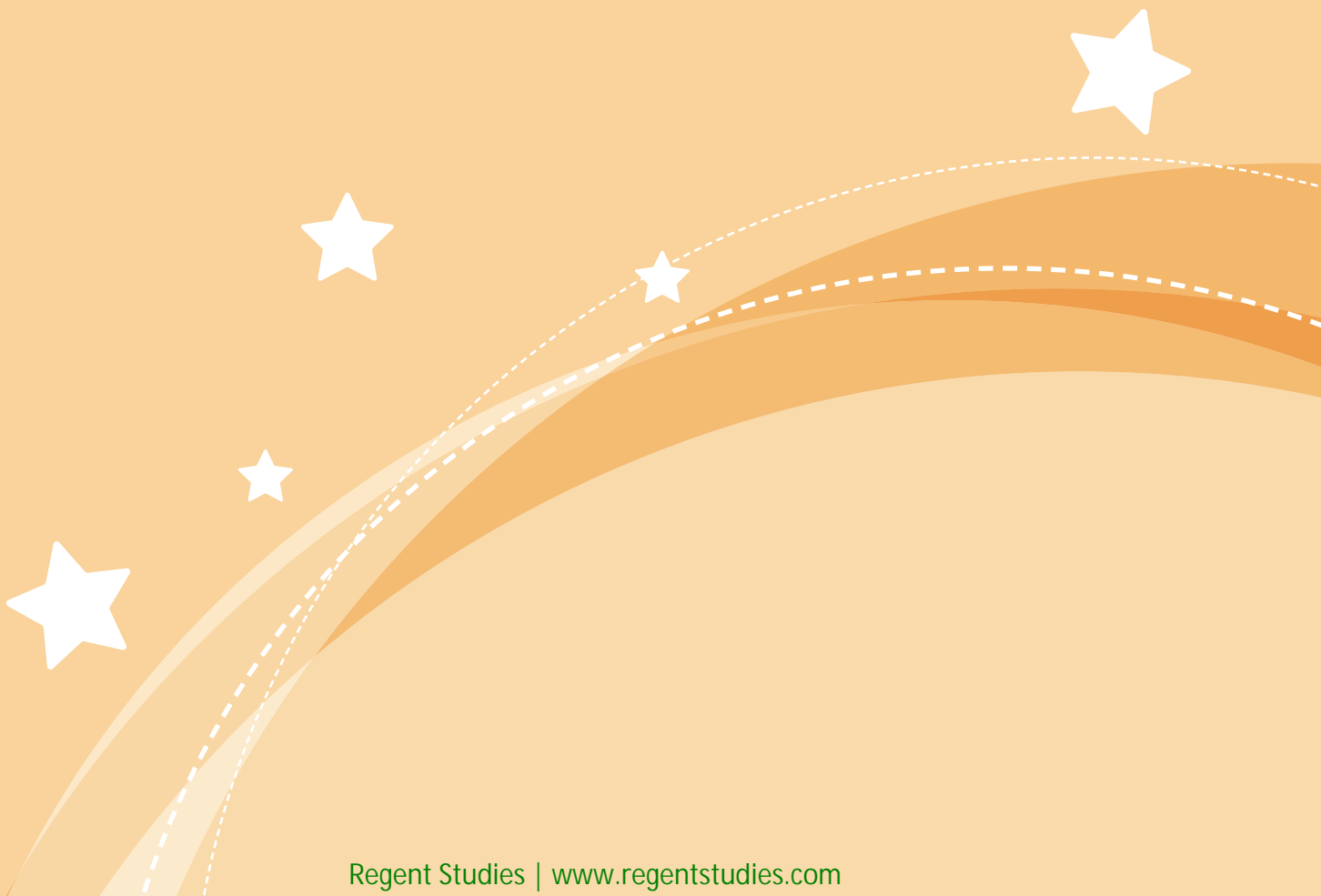
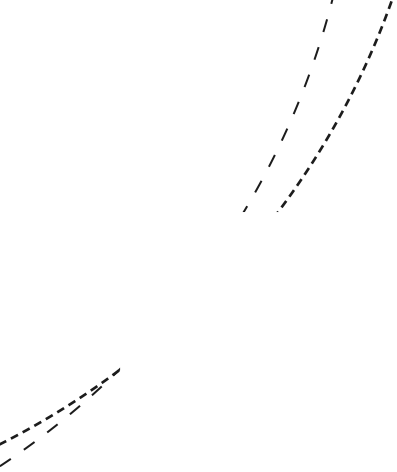




Mathematics Guide







Comparing Events

I can compare activities in minutes and seconds.



Six children were timed completing a cycle track. Here are their times:

Pavitar	5 minutes 27 seconds
Liam	4 minutes 39 seconds
Daisy	4 minutes 53 seconds
Karandip	5 minutes 20 seconds
Cassie	4 minutes 36 seconds
Ruben	4 minutes 22 seconds



1) Answer these questions. Show your working out.

a) Who was the fastest?

b) Who was the slowest?

c) Order the children from fastest to slowest.

fastest	←					→	slowest

d) How much faster was Cassie than Pavitar?

e) How much slower was Daisy than Ruben?



This is how long it takes Jack to walk from his house to different parts of his home town.

Library	5 minutes 36 seconds
Swimming Pool	2 minutes 36 seconds
School	3 minutes 58 seconds
Park	4 minutes 35 seconds
Post Office	4 minutes 28 seconds
Cafe	6 minutes 5 seconds
Bank	4 minute 9 seconds



- 2) Answer these questions. Show your working out.
- a) Which place takes Jack the least time to walk to?

- b) Which places take Jack less than 4 minutes to walk to?

- c) Order the places from the least time to the most time to walk to.

most time	←—————→					least time

- d) How much longer does it take Jack to walk to the Bank than the Park?

- e) How less time did it take Jack to walk to the Swimming Pool than the Library?



Comparing Events **Answers**

Question	Answer
1. Answer these questions. Show your working out.	
a.	<i>Ruben</i>
b.	<i>Pavitar</i>
c.	<i>Ruben, Cassie, Liam, Daisy, Karandip, Pavitar.</i>
d.	<i>51 seconds</i>
e.	<i>31 seconds</i>

2. Answer these questions. Show your working out.	
a.	<i>Swimming Pool</i>
b.	<i>Swimming Pool, School.</i>
c.	<i>Swimming Pool, School, Bank, Post Office, Park, Library, Café.</i>
d.	<i>26 seconds</i>
e.	<i>3 minutes</i>



Comparing Events

I can compare activities in minutes and seconds.



Six children ran a race. Here are their times:

Lucy	27 seconds
Gavin	21 seconds
Tyrol	25 seconds
Pamela	30 seconds
Sukhi	39 seconds
Hamaad	32 seconds



1) Answer these questions. Show your working out.

a) Who was the fastest?

b) Who was the slowest?

c) Order the children from fastest to slowest.

fastest	←—————→					slowest

d) How much faster was Tyrol than Sukhi?

e) How much slower was Hamaad than Gavin?



Theresa has been learning her 4 times table. This is how long it took her to say the whole table across a week.

Monday	2 minutes 30 seconds
Tuesday	2 minutes 25 seconds
Wednesday	2 minutes 15 seconds
Thursday	2 minutes 20 seconds
Friday	2 minutes 10 seconds
Saturday	1 minute 55 seconds
Sunday	2 minutes 5 seconds



2) Answer these questions. Show your working out.

a) On which day did Theresa say the 4 times table in the least time?

b) On which day did Theresa take 2 minutes and 20 seconds to say the 4 times table?

c) Order the days from the most time taken to the least time.

most time	←—————→						least time

d) How much longer did it take Theresa to say the 4 times table on Tuesday than Friday?

e) How much less time did it take Theresa to say the 4 times table on Saturday than Monday?



Comparing Events **Answers**

Question	Answer
1. Answer these questions. Show your working out.	
a.	<i>Gavin</i>
b.	<i>Sukhi</i>
c.	<i>Gavin, Tyrol, Lucy, Pamela, Hamaad, Sukhi.</i>
d.	<i>14 seconds.</i>
e.	<i>11 seconds</i>

2. Answer these questions. Show your working out.	
a.	<i>Saturday</i>
b.	<i>Thursday</i>
c.	<i>Monday, Tuesday, Thursday, Wednesday, Friday, Sunday, Saturday.</i>
d.	<i>15 seconds</i>
e.	<i>35 seconds</i>



Comparing Events

I can compare activities in minutes and seconds.



Six children were timed completing an obstacle course. Here are their times:

Tim	3 minutes 15 seconds
Bhavita	4 minutes 30 seconds
Sheena	3 minutes 35 seconds
Kiran	4 minutes 20 seconds
Patti	3 minutes 5 seconds
Hasan	3 minutes 30 seconds



1) Answer these questions. Show your working out.

a) Who was the fastest?

b) Who was the slowest?

c) Order the children from fastest to slowest.

fastest	←	→				slowest

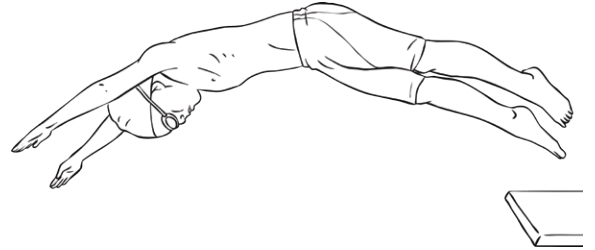
d) How much faster was Tim than Sheena?

e) How much slower was Bhavita than Tim?



Sandeep has been training for his swimming team. Here are his timings for 1 length.

Monday	1 minute 45 seconds
Tuesday	1 minute 5 seconds
Wednesday	1 minute 55 seconds
Thursday	1 minute 25 seconds
Friday	1 minute 40 seconds
Saturday	2 minutes 5 seconds
Sunday	1 minute 10 seconds



2) Answer these questions. Show your working out.

a) On which day did Sandeep swim the length in the fastest time?

b) On which days did Sandeep swim the length in less than 1 minute 30 seconds?

c) Order the days from the most time taken to the least time.

most time	←—————→						least time

d) How much longer did it take Sandeep to swim the length on Saturday than Friday?

e) How less time did it take Sandeep to swim the length on Wednesday than Saturday?



Comparing Events **Answers**

Question	Answer
1. Answer these questions. Show your working out.	
a.	<i>Patti</i>
b.	<i>Bhavita</i>
c.	<i>Patti, Tim, Hasan, Sheena, Kiran, Bhavita.</i>
d.	<i>20 seconds</i>
e.	<i>1 minute 15 seconds</i>

2. Answer these questions. Show your working out.	
a.	<i>Tuesday</i>
b.	<i>Tuesday, Thursday, Sunday.</i>
c.	<i>Saturday, Wednesday, Monday, Friday, Thursday, Sunday, Tuesday.</i>
d.	<i>25 seconds</i>
e.	<i>10 seconds</i>

Measurement: Minutes and Seconds

Aim: Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight. I can estimate, time and compare activities in minutes and seconds.	Success Criteria: I can estimate the time it will take to complete activities. I can time activities in minutes and seconds. I can compare the times of activities and say how much longer one event takes than another. I can order timed events.	Resources: Lesson Pack On-screen Twinkl Timer . Stopwatches - 1 per pair Whiteboards and pens - class set
	Key/New Words: Events, timer, stopwatch, minutes, seconds, order.	Preparation: Time Word Search - 1 per pair Differentiated Comparing Events Activity Sheet - 1 per child

Prior Learning: It will be helpful if children have previous experience of using stopwatches.

Learning Sequence

	How Long is a Minute? Children estimate how long a minute is. They to put their head on the table and close their eyes. Start the Twinkl Timer . When they think a minute has passed, they lift up their head. Ask children to share strategies (for example, by counting seconds by saying a word after every number), then repeat the activity to see if children can improve their estimate. Did children manage to improve? What strategy did they use? Repeat the activity one more time.							
	Timing Events: Children complete the Time Word Search and participate in some classroom games, timing how long it takes to complete these activities in minutes and seconds, and answering comparison questions.							
	Time Your Own Event: In pairs, children think of a short activity that could be timed using a stopwatch. They each complete the activity, timing each other with a stopwatch. Using a whiteboard, they record the times in minutes and seconds. Who was the quickest to complete the activity? What was the difference between the two times?							
	Basketball Competition: The Lesson Presentation shows the times of how long group of children take to score five baskets. The times are recorded in minutes and seconds. Children work with a talk partner to order the times and answer comparison questions.							
	Comparing Events: Children complete the differentiated Comparing Events Activity Sheets , answering questions about timed activities, and ordering and comparing times. <table style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"></td> <td>Children compare and order activities timed in minutes and seconds. The times are in multiples of five.</td> <td style="text-align: center;"></td> <td>Children compare and order activities timed in minutes and seconds. The times are in multiples of one.</td> <td style="text-align: center;"></td> <td>Children compare and order a greater range activities timed in minutes and seconds. The times are in multiples of one.</td> </tr> </table>		Children compare and order activities timed in minutes and seconds. The times are in multiples of five.		Children compare and order activities timed in minutes and seconds. The times are in multiples of one.		Children compare and order a greater range activities timed in minutes and seconds. The times are in multiples of one.	
	Children compare and order activities timed in minutes and seconds. The times are in multiples of five.		Children compare and order activities timed in minutes and seconds. The times are in multiples of one.		Children compare and order a greater range activities timed in minutes and seconds. The times are in multiples of one.			
	Order Events: In pairs, children order events which include times in seconds and times in minutes and seconds. Can children explain their reasoning?							

Masterit

Timeit: Children use equipment to set up an obstacle course. Using a stopwatch, they time how long it takes a group of children to complete the course.

Researchit: Children use the internet to research times for sporting events. Which sports record times in seconds and which use minutes and seconds?



Maths

Measurement

Minutes and Seconds



Aim

- I can estimate, time and compare activities in minutes and seconds.

Success Criteria

- I can estimate the time it will take to complete activities.
- I can time activities in minutes and seconds.
- I can compare the times of activities and say how much longer one event takes than another.
- I can order timed events.

How Long is a Minute?



How many seconds are there in a minute?

1, 2, 3, 4, 5,

When you think a minute has passed, lift up your head.

You will see how close to a minute you were.



How Long is a Minute?



Did you do anything to help you estimate a minute?

1 elephant,
2 elephants,
3 elephants,



Did you use another strategy?
by adding a word after each
Let's try again.

How Long is a Minute?



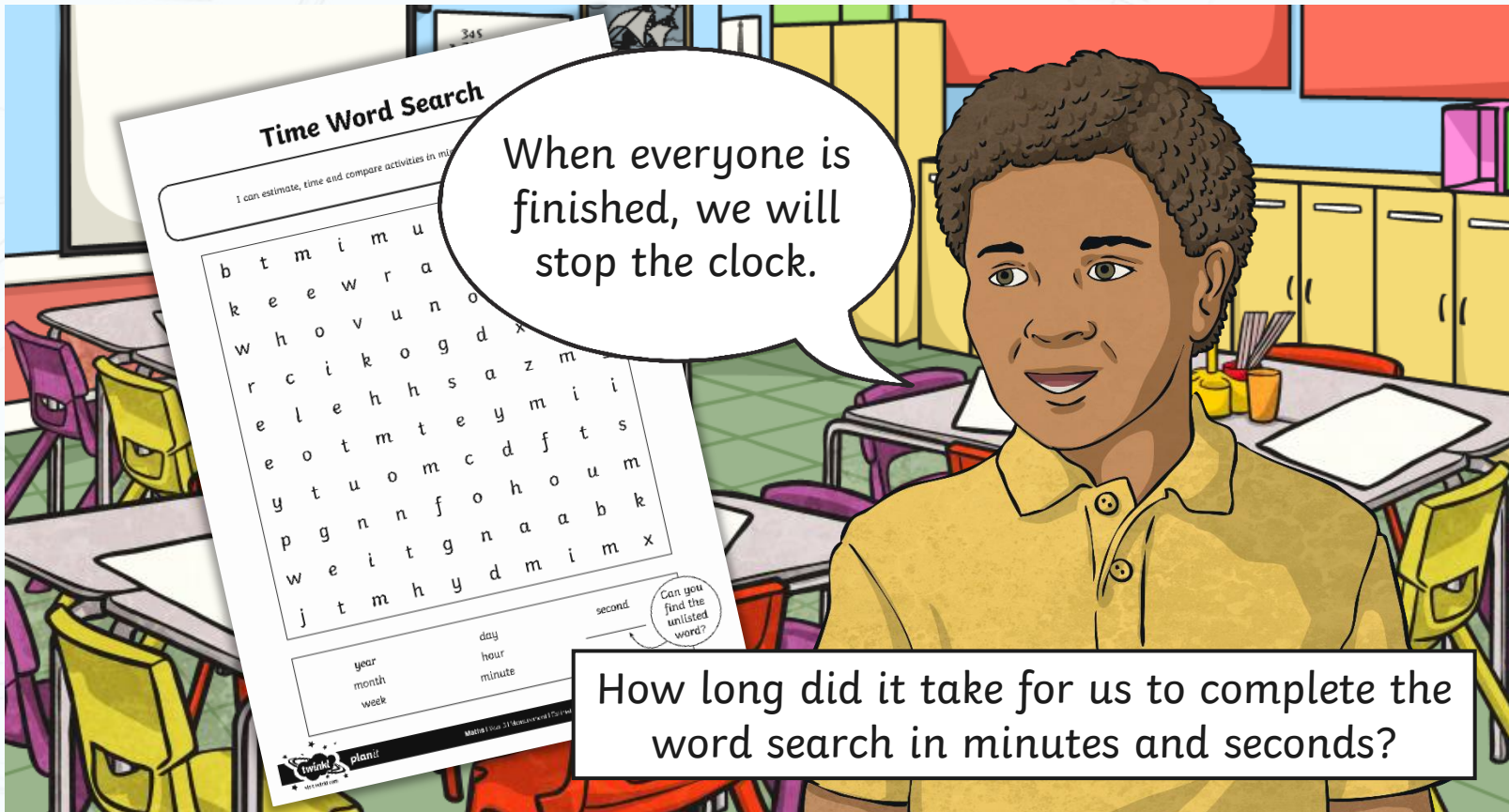
Was your estimate any closer?





Timing Events

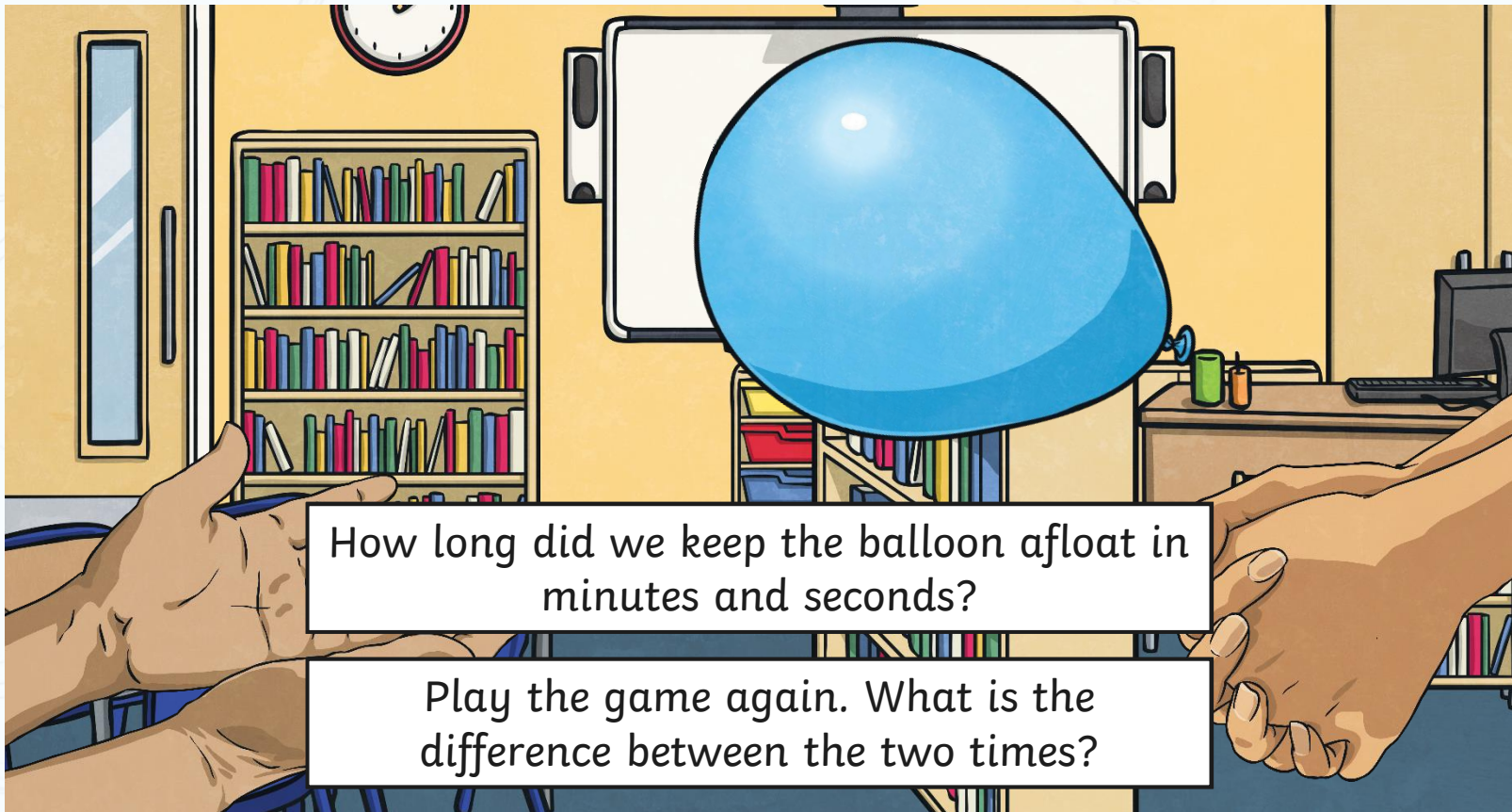
We are going to time ourselves completing the Time Word Search.



Timing Events



We are going to see how long we can keep the balloon afloat.



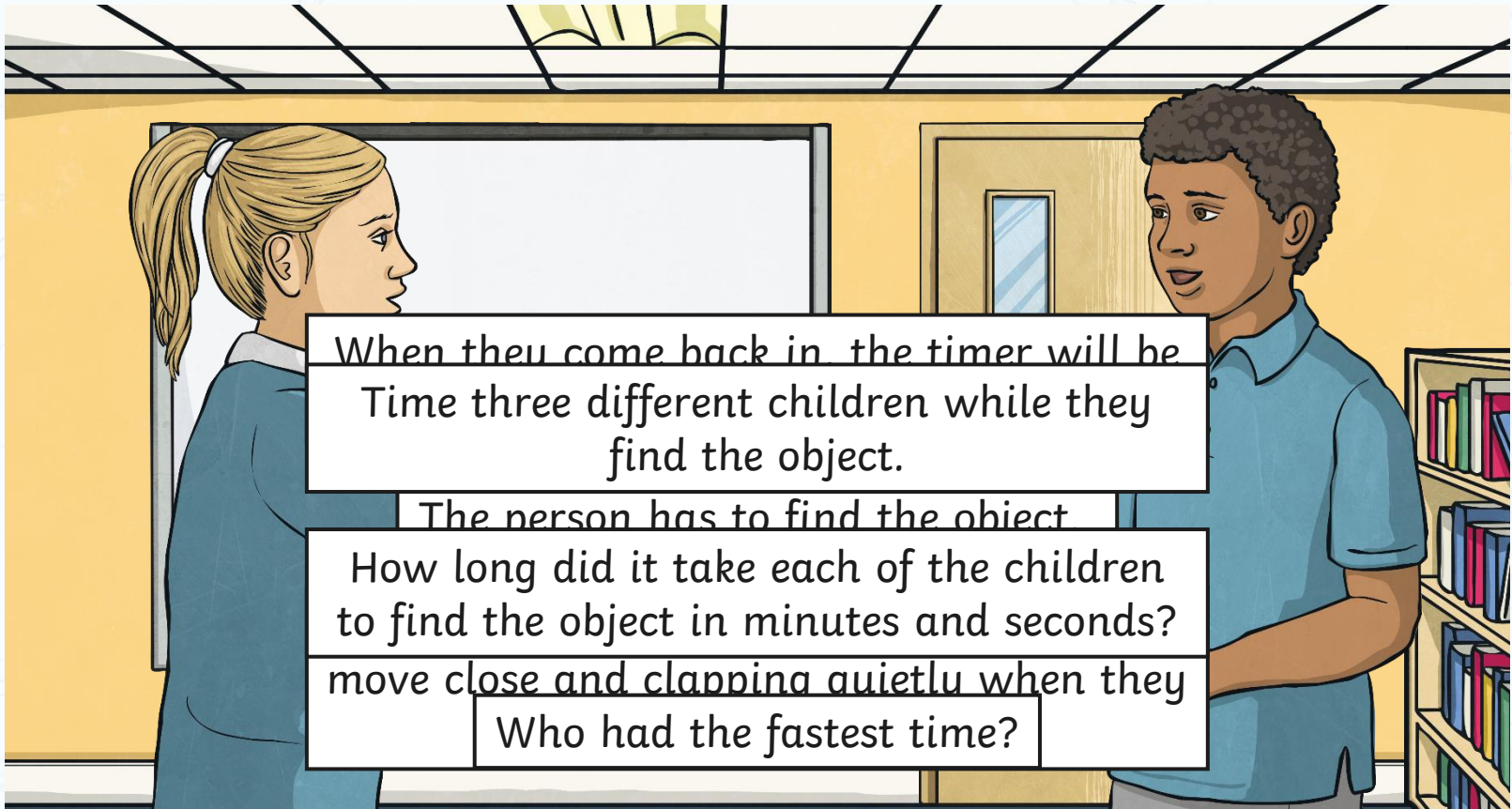
How long did we keep the balloon afloat in minutes and seconds?

Play the game again. What is the difference between the two times?



Timing Events

One person will go outside the room and an object will be hidden.



Time Your Own Event



Work with a partner to think of an activity that you could time.

Time activities...

You will time each other completing the activity in minutes and seconds.

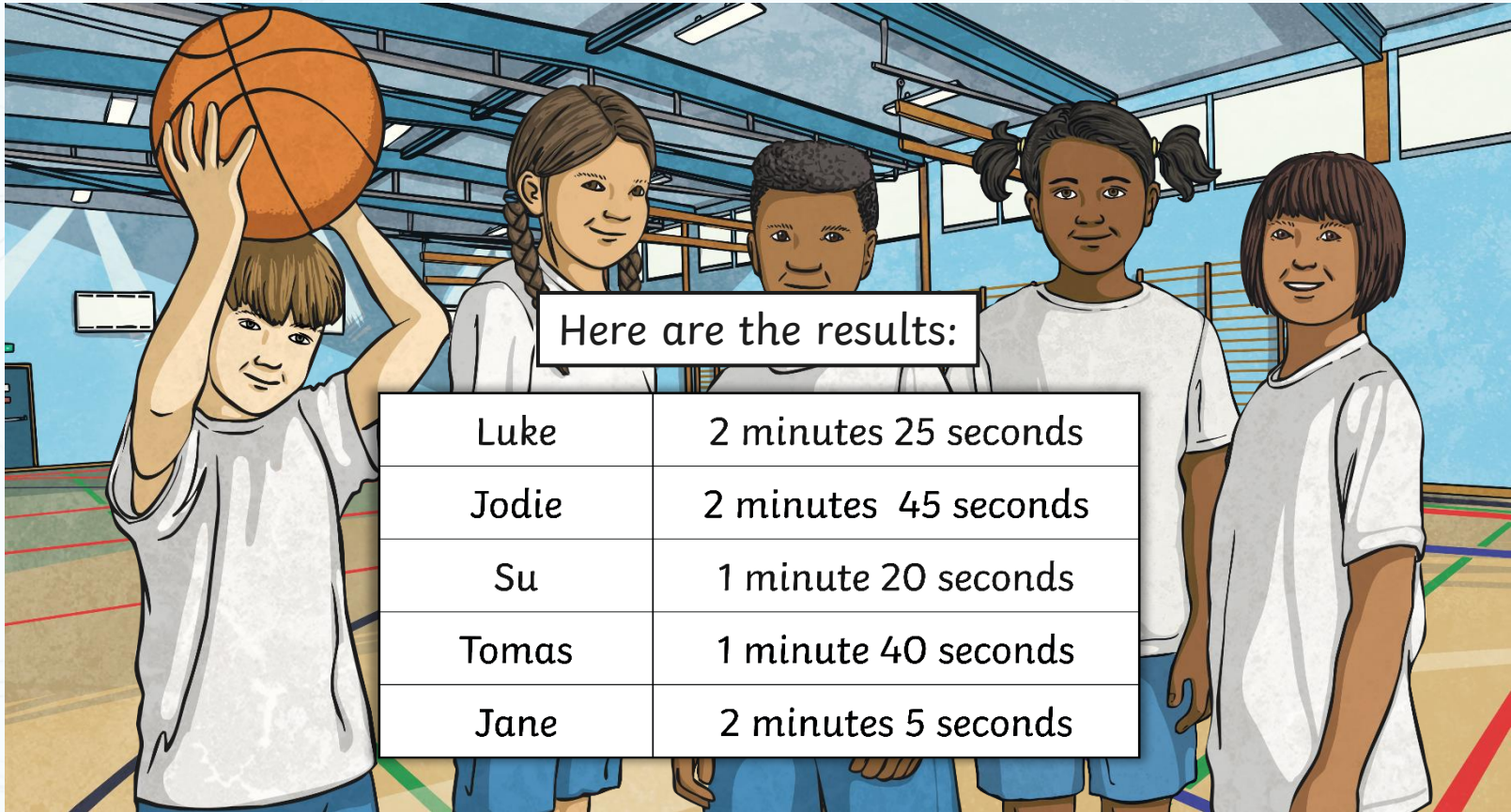
Time each other completing your chosen activity.

Who completed the activity the fastest?
What was the difference between the two times?

Basketball Competition



Five friends have a basketball competition. They time themselves how long it takes each person to score five baskets.



Basketball Competition



Order the times from the shortest to the longest time:

Luke	2 minutes 25 seconds
Jodie	2 minutes 45 seconds
Su	1 minute 20 seconds
Tomas	1 minute 40 seconds
Jane	2 minutes 5 seconds

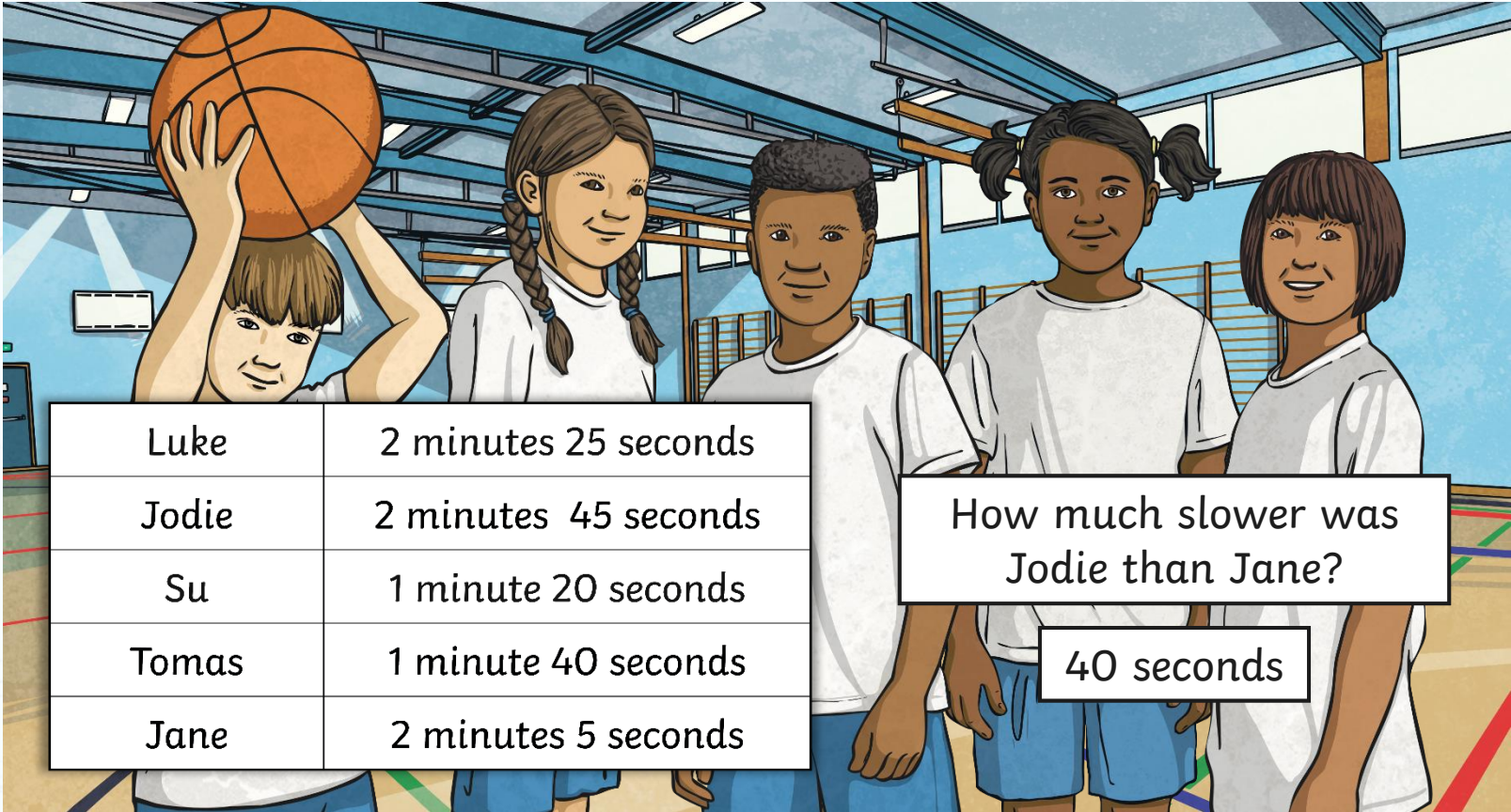
shortest ← → longest

Su 1 minute 20 seconds	Tomas 1 minute 40 seconds	Jane 2 minutes 5 seconds	Luke 2 minutes 25 seconds	Jodie 2 minutes 45 seconds
------------------------------	---------------------------------	--------------------------------	---------------------------------	----------------------------------

Basketball Competition



Can you solve these time problems?



Luke	2 minutes 25 seconds
Jodie	2 minutes 45 seconds
Su	1 minute 20 seconds
Tomas	1 minute 40 seconds
Jane	2 minutes 5 seconds

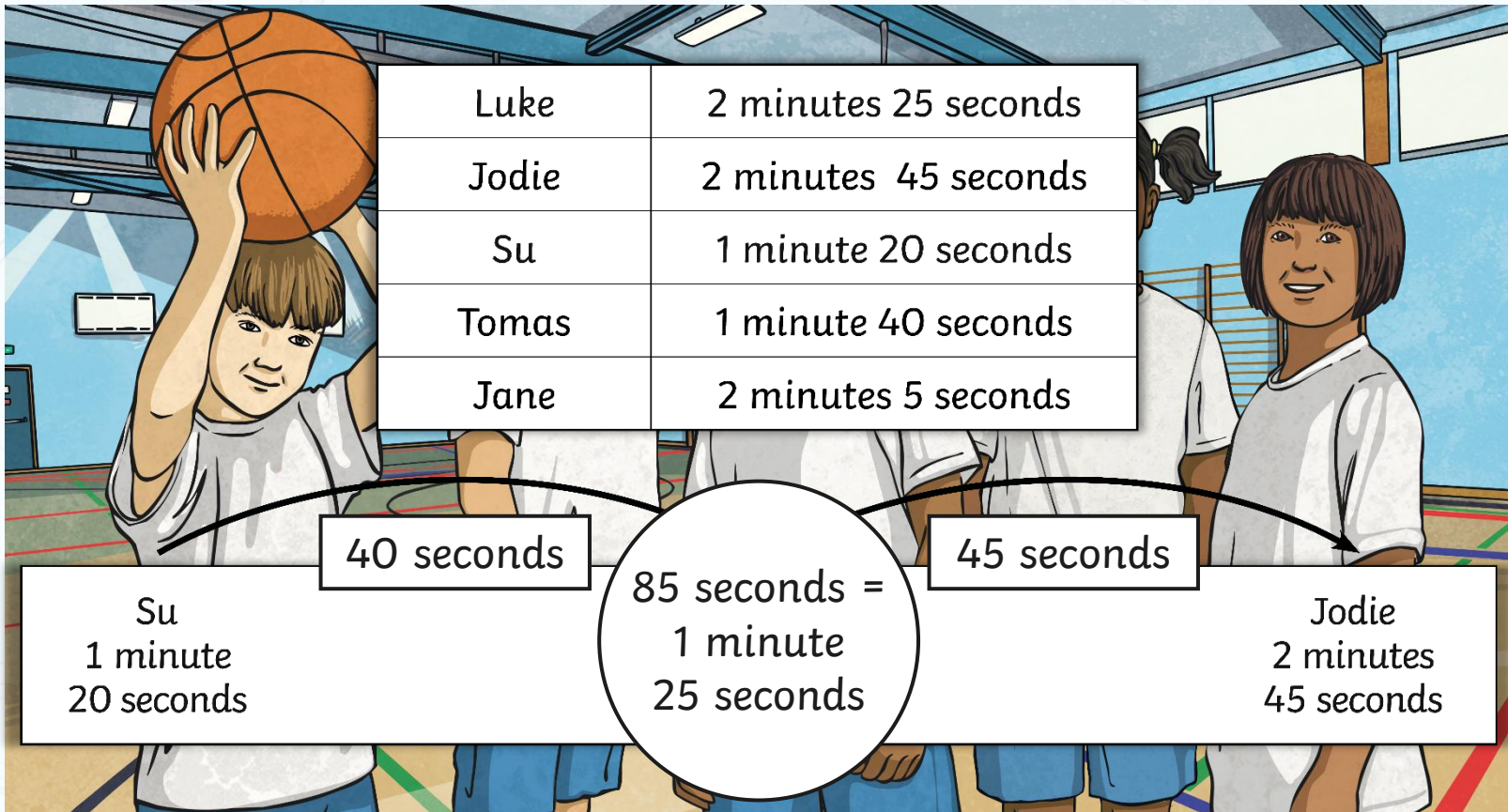
How much slower was Jodie than Jane?

40 seconds

Basketball Competition



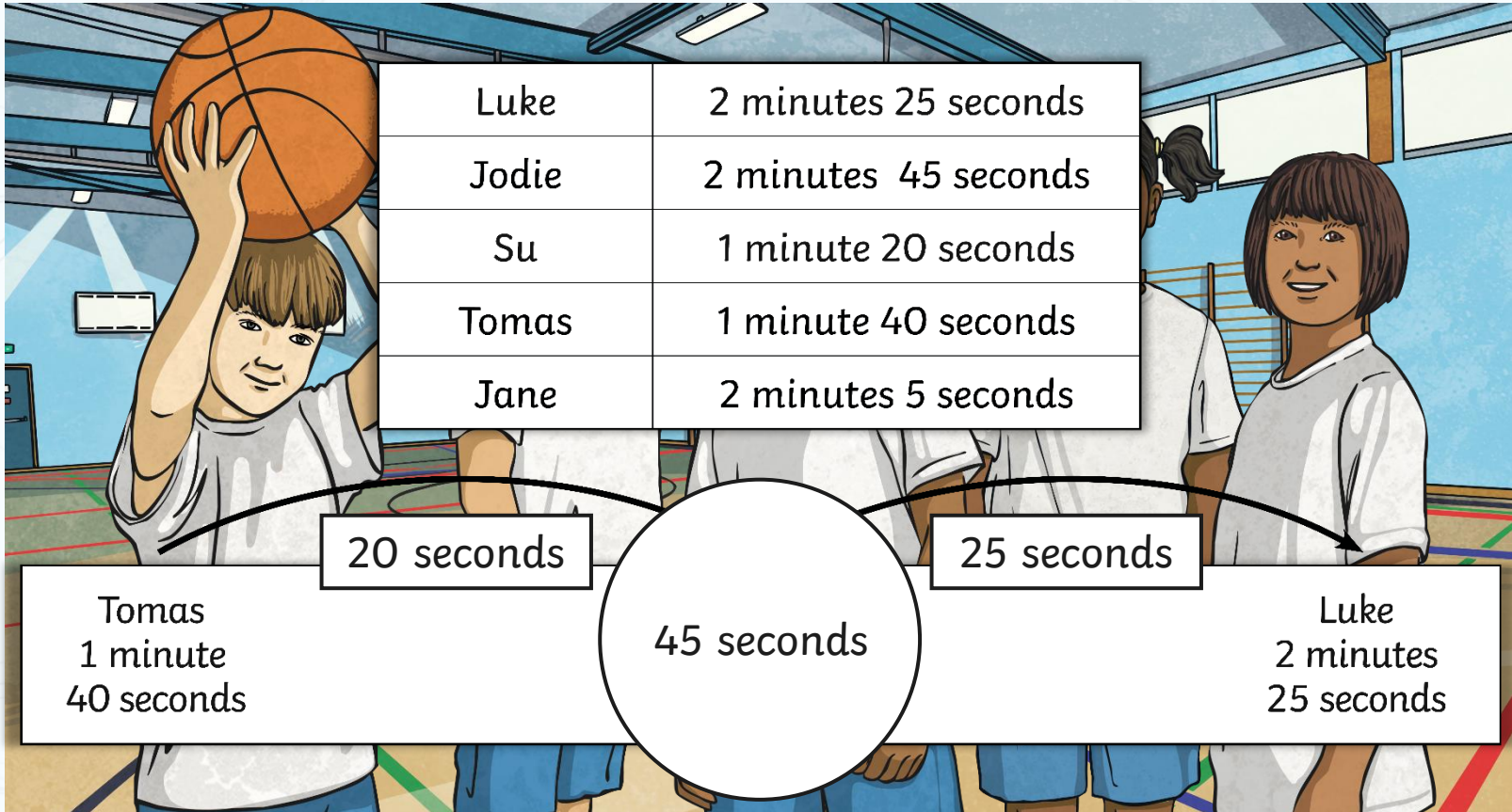
How much faster was Su than Jodie?
To answer this, it may help to draw a number line.



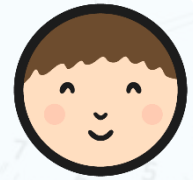
Basketball Competition



How much faster was Tomas than Luke?
Draw a number line to help.



Comparing Events



Use your terrific time skills to complete these activity sheets:

★★★ This is how long it takes to get to...

Library
Swimming Pool
School
Park
Post Office
Cafe
Bank

2) Answer these questions

a) Which place takes the longest time to get to?

b) Which places take the same time to get to?

c) Order the places from most time to least time.

d) How much longer does it take to get to the library than the bank?

e) How less time did it take to get to the bank than the library?

★★★ Complete the table

I can compare activities in minutes and seconds.

Six children were timed competing in a race.

Pavitar
Liam
Daisy
Karandip
Cassie
Ruben

1) Answer these questions

a) Who was the fastest?

b) Who was the slowest?

c) Order the children from fastest to slowest.

d) How much faster was Pavitar than Ruben?

e) How much slower was Ruben than Pavitar?

★★★ Sandeep has been training for a race.

Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday

2) Answer these questions

a) On which day did Sandeep train for the longest time?

b) On which days did Sandeep train for the same amount of time?

c) Order the days from most time to least time.

d) How much longer did Sandeep train on Monday than on Sunday?

e) How less time did Sandeep train on Sunday than on Monday?

★★★ Complete the table

I can compare activities in minutes and seconds.

Six children were timed competing in a race.

Tim
Bhavita
Shoena
Kiran
Patti
Hasan

1) Answer these questions

a) Who was the fastest?

b) Who was the slowest?

c) Order the children from fastest to slowest.

d) How much faster was Tim than Patti?

e) How much slower was Patti than Tim?

★ Theresa has been learning to play the piano.

Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday

2) Answer these questions

a) On which day did Theresa practice for the longest time?

b) On which day did Theresa practice for the same amount of time?

c) Order the days from most time to least time.

d) How much longer did Theresa practice on Monday than on Sunday?

e) How much less time did Theresa practice on Sunday than on Monday?

★ Comparing Events

I can compare activities in minutes and seconds.

Six children ran a race. Here are their times:

Lucy	27 seconds
Gavin	21 seconds
Tyrol	25 seconds
Pamela	30 seconds
Sukhi	39 seconds
Hamaad	32 seconds

1) Answer these questions. Show your working out.

a) Who was the fastest?

b) Who was the slowest?

c) Order the children from fastest to slowest.

d) How much faster was Tyrol than Sukhi?

e) How much slower was Hamaad than Gavin?



Order Events

Order these events from the taking the least time to the most time:

Recite a poem
35 seconds

Recite a poem
35 seconds

Get dressed in the morning
1 minute 40 seconds

Run 300 metres
85 seconds

Boil a kettle
2 minutes

Say your 3 times table
75 seconds

Get dressed in the morning
1 minute 20 seconds

Complete a maths question
1 minute 20 seconds

Boil a kettle
2 minutes

Make some toast
10 seconds

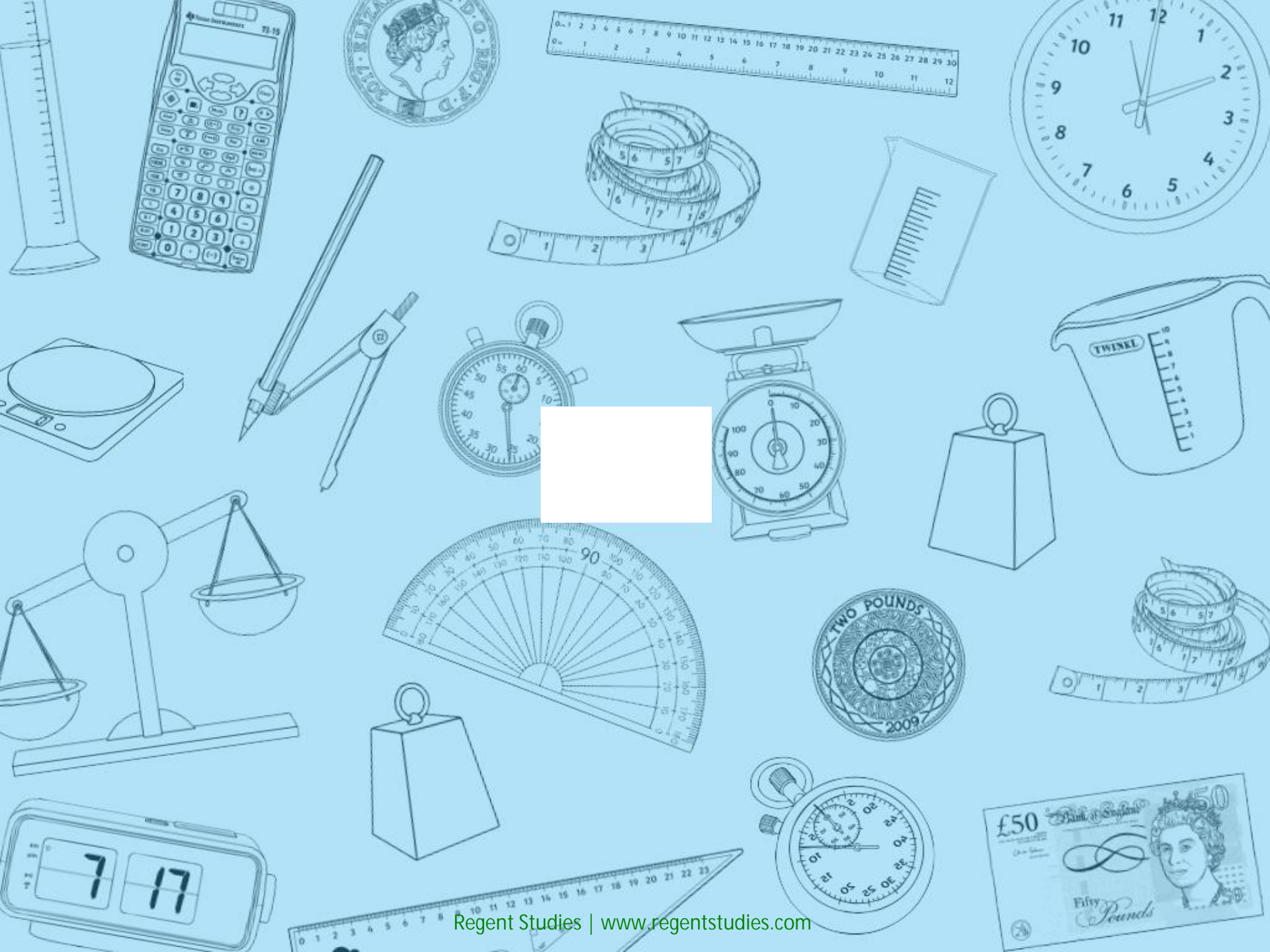
Aim



- I can estimate, time and compare activities in minutes and seconds.

Success Criteria

- I can estimate the time it will take to complete activities.
- I can time activities in minutes and seconds.
- I can compare the times of activities and say how much longer one event takes than another.
- I can order timed events.



Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Measurement | Minutes and Seconds

I can estimate, time and compare activities in minutes and seconds.		
I can estimate the time it will take to complete activities.		
I can time activities in minutes and seconds.		
I can compare the times of activities and say how much longer one event takes than another.		
I can order timed events.		

Time Word Search

I can estimate, time and compare activities in minutes and seconds.



b	t	m	i	m	u	p	a	w	g
k	e	e	w	r	a	e	y	e	i
w	h	o	v	u	n	o	c	i	s
r	c	i	k	o	g	d	x	e	r
e	l	e	h	h	s	a	z	m	y
e	o	t	m	t	e	y	m	i	i
y	t	u	o	m	c	d	f	t	s
p	g	n	n	f	o	h	o	u	m
w	e	i	t	g	n	a	a	b	k
j	t	m	h	y	d	m	i	m	x

year
month
week

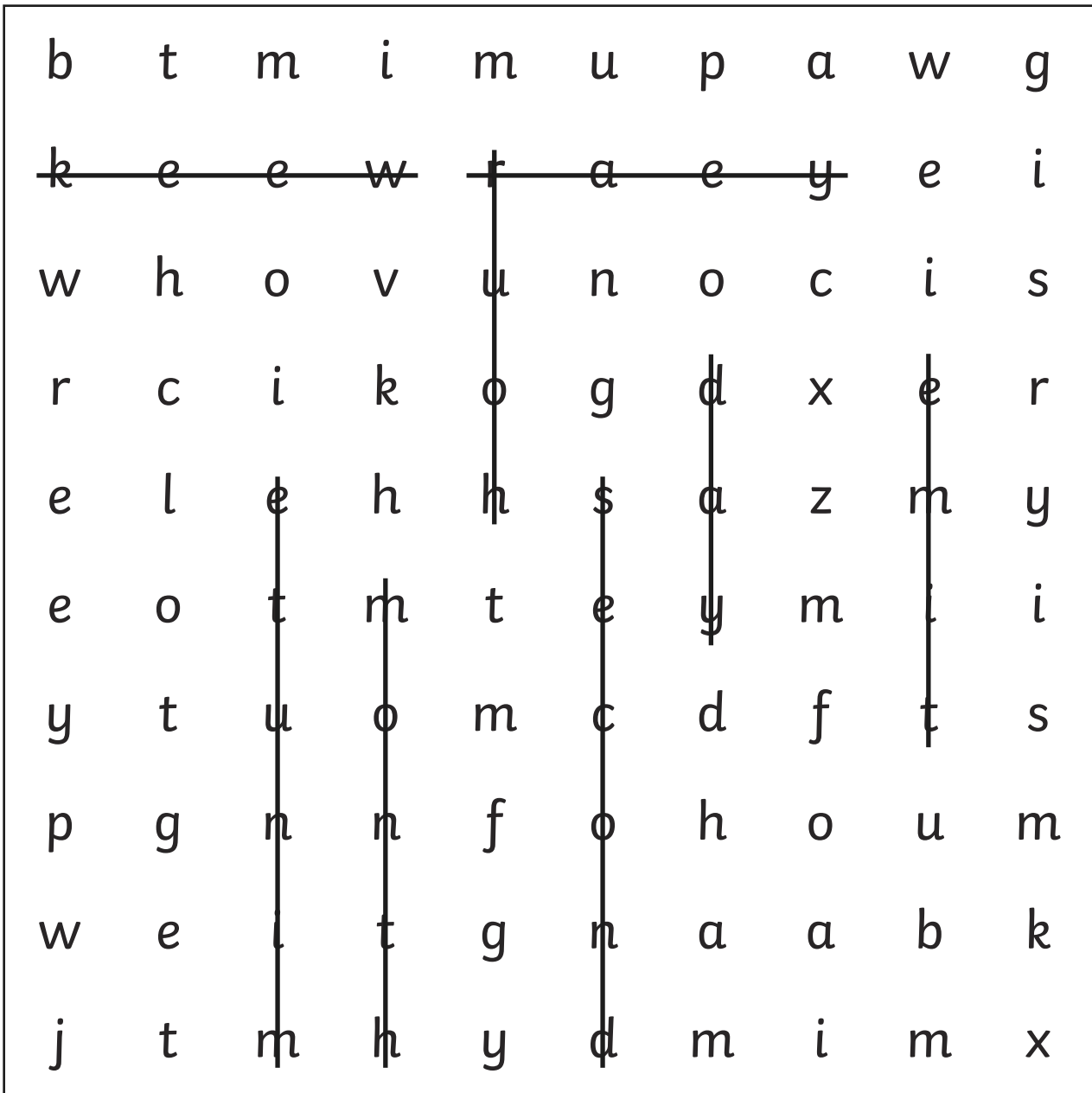
day
hour
minute

second



Can you find the unlisted word?

Time Word Search **Answers**



year	day	second
month	hour	<i>time</i>
week	minute	