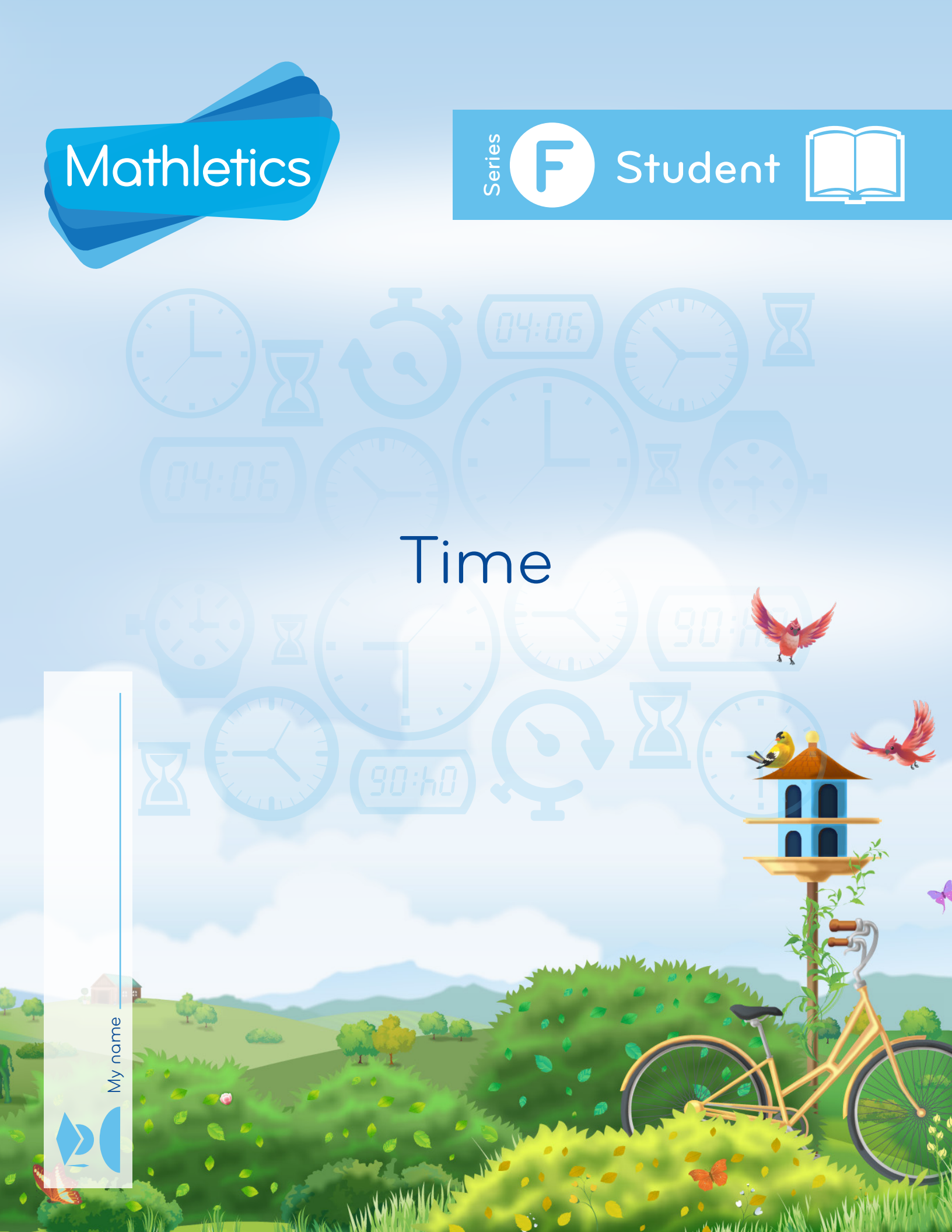




Time

My name _____



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Series F – Time

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- time relationship challenges _____
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- working out travel time _____
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- circus school – *solve* _____

Series Authors:

Rachel Flenley

Nicola Herringer

Measuring time – time relationships

Connect these time facts:

1 minute	24 hours	1 year	10 years
1 hour	365 days	1 decade	100 years
1 day	60 seconds	1 century	12 months
1 year	60 minutes		

1 How many minutes are there in the following hours?

- a 2 hours = minutes b $\frac{1}{4}$ hour = minutes
- c $\frac{1}{2}$ hour = minutes d $\frac{3}{4}$ hour = minutes
- e 4 hours = minutes f 6 hours = minutes

2 How many seconds are there in the following times?
You may use a calculator.

I need to remember to
change hours to minutes first.
Then I can convert to seconds.

- a 2 minutes = seconds b 5 minutes = seconds
- c 1 hour = seconds d $\frac{1}{2}$ hour = seconds
- e $\frac{1}{2}$ minute = seconds f $\frac{1}{4}$ hour = seconds

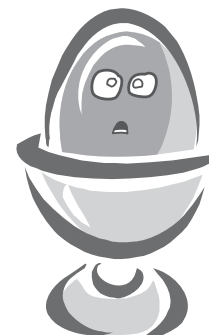


3 Use the information in the top box to work out these time facts:

- a 1 decade = months b 1 century = years
- c 2 weeks = days d $\frac{1}{2}$ century = years
- e 1 week = hours f 2 years = days

4 What time unit would you use to measure each of the following?

- Time to hard boil an egg _____
- One millennium _____
- One leap year _____
- Length of a soccer match _____



Measuring time – reading analogue clocks

1 Draw a line from each clock to its matching time in words:



quarter to 8

half past 2

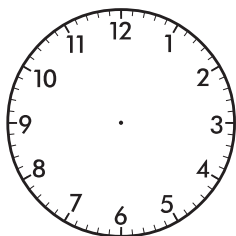


25 minutes to 5

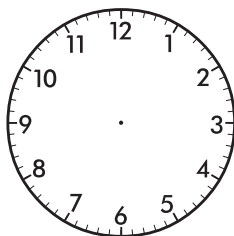
25 minutes after 3



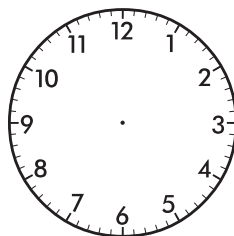
2 Draw the hands on these clocks:



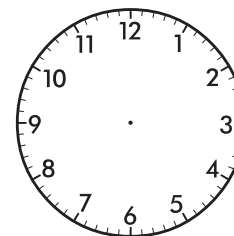
a 20 minutes past 6



b quarter to 7

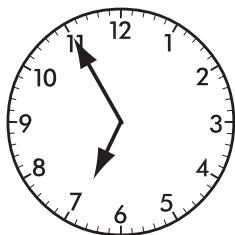


c 16 minutes past 4

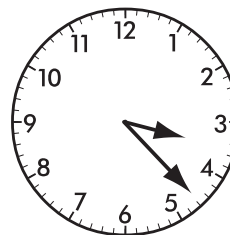


d 25 minutes to 9

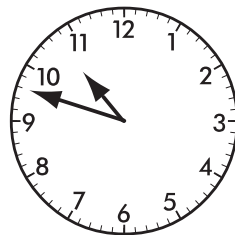
3 Using 'to', 'past' or 'after', write the time displayed on each clock:



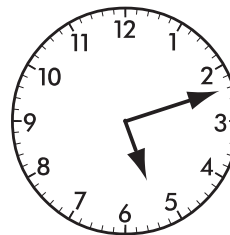
a _____



b _____



c _____



d _____

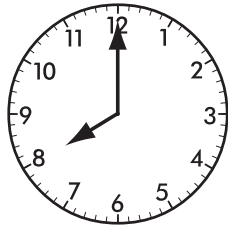
Measuring time – am and pm notation

We use am and pm with digital time.

am → The part of the day between 12 midnight and 12 noon.

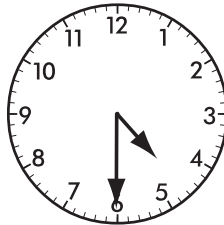
pm → The part of the day between 12 noon and 12 midnight.

1 Express these times in digital form using am or pm:



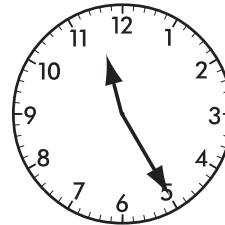
morning

a :



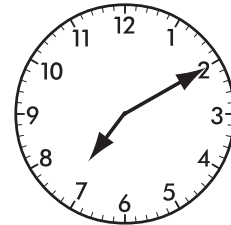
afternoon

b :



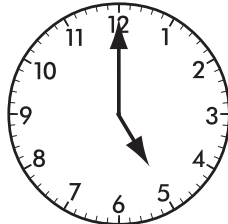
evening

c :



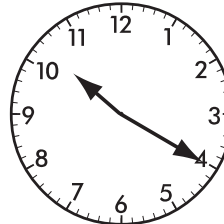
morning

d :



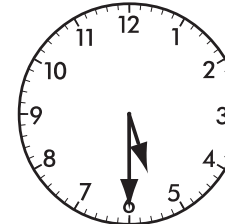
morning

e :



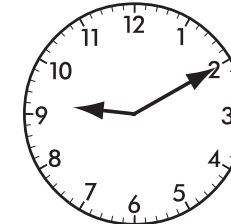
evening

f :



afternoon

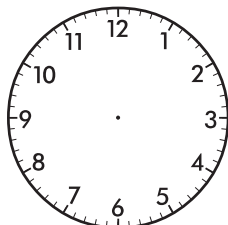
g :



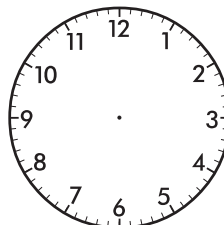
morning

h :

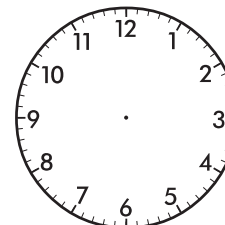
2 Draw hands on these analogue clocks to match the digital times:



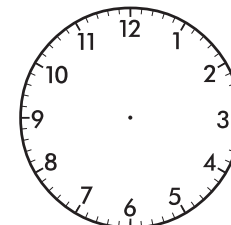
a 8:40 am



b 5:15 pm

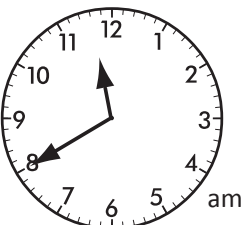


c 10:30 am



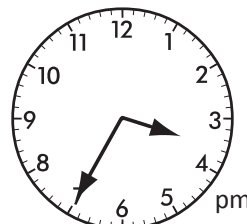
d 12:20 pm

3 Put these times in order from earliest to latest. Express the times in digital form:



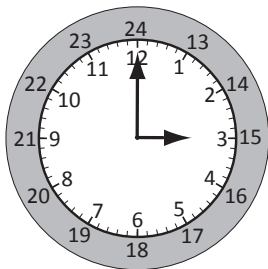
quarter after 5
in the evening

11:10 am



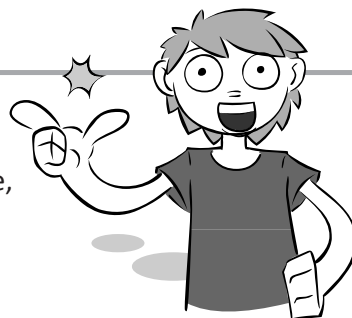
1 :
2 :
3 :
4 :

Measuring time – 24 hour time



Time can be measured using 12 hour time, using am/pm, or 24 hour time.

3:00 pm = 1500



REMEMBER

1 Complete the table with the correct analogue, digital and 24 hour times.

	1:00 pm	9:30 pm	
0835			1815

2:22 pm	1:18 am		
		2000	2104

2 Convert these 24 hour times to digital times:

a 0400 = <input type="text" value="4:00 am"/>	b 1500 = <input type="text"/>	c 1330 = <input type="text"/>
d 1605 = <input type="text"/>	e 0920 = <input type="text"/>	f 0825 = <input type="text"/>

3 Convert these digital times into 24 hour time:

a 9 am = <input type="text"/>	b 10 pm = <input type="text"/>	c 7:30 am = <input type="text"/>
d 2:15 pm = <input type="text"/>	e 5:35 am = <input type="text"/>	f 7:25 pm = <input type="text"/>

4 It is 1700 and your favourite TV show is due to start in half an hour.
Show the starting time in digital form:

Measuring time – 24 hour time

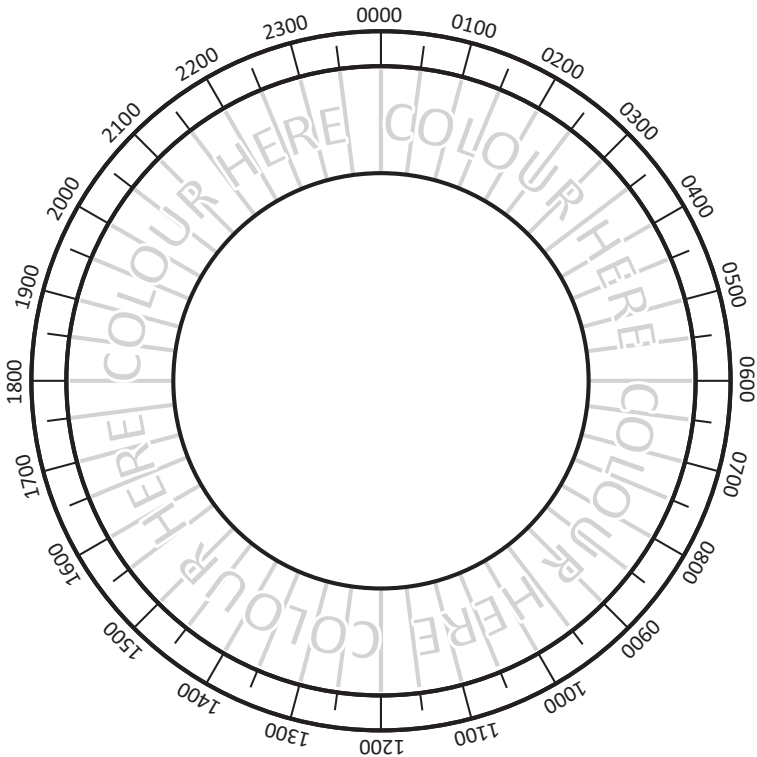
DVD recorders use 24 hour time to record programs.

- 5 Minh wants to record some programs on her DVD.
Enter the start and finish times of each program in 24 hour time. How long is each show?

Channel 4	
9:00 am	Science Show
10:00 am	Behind the News
11:00 am	Weather Report
12:00 pm	Midday News
1:30 pm	My Name is Greg
2:30 pm	Movie: Slink!
4:00 pm	4 pm News
5:00 pm	Smartline
6:00 pm	Current Affairs
8:00 pm	Movie: Duck Island
9:45 pm	Late News

Program	Start	Finish	Length
Science Show	0900	1000	1 hour
Behind the News			
Movie: Slink!			
4 pm News			
Smartline			
Movie: Duck Island			

- 6 Carla is training for a marathon. Complete the chart below to show how she spends her day. Colour each of the segments in the chart using a different colour to show the duration of each activity below.



Colour	Time	Activity
<input type="checkbox"/>	5:00 am – 6:45 am	Morning run
<input type="checkbox"/>	6:45 am – 8:00 am	Breakfast, get ready for work
<input type="checkbox"/>	8:00 am – 8:45 am	Drive to work
<input type="checkbox"/>	8:45 am – 5:00 pm	Work
<input type="checkbox"/>	5:00 pm – 5:45 pm	Drive home
<input type="checkbox"/>	5:45 pm – 7:00 pm	Gym session
<input type="checkbox"/>	7:00 pm – 7:30 pm	Shower
<input type="checkbox"/>	7:30 pm – 8:15 pm	Have dinner
<input type="checkbox"/>	8:15 pm – 10:00 pm	Watch TV and read
<input type="checkbox"/>	10:00 pm – 5:00 am	Sleep

- a How long is Carla’s morning run? _____
- b How long is Carla’s work day? _____
- c How much time does Carla have between dinner and bed time? _____

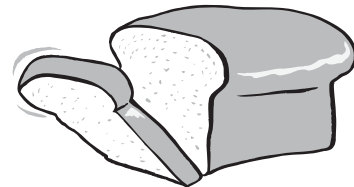
Measuring time – time relationship challenges

1 How long does it take to make a loaf of bread?

Read this recipe carefully and work out how long it will take to make the bread.

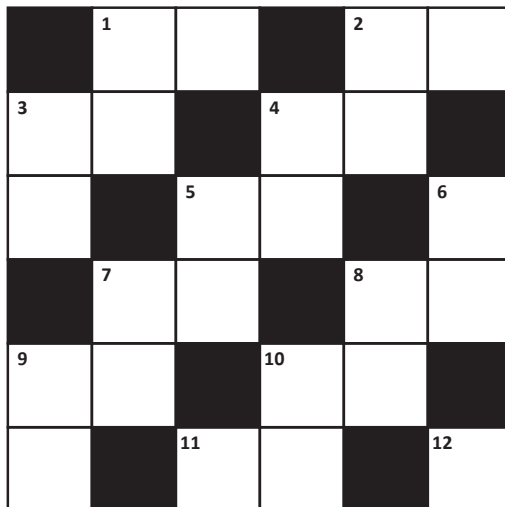
Method for making a loaf of bread:

1. Make the dough by adding yeast mixture to the flour. This will take 3 minutes.
2. Knead on a lightly floured surface for 10 minutes.
3. Place the dough in a covered bowl and let it rise in a warm place for about $1\frac{1}{4}$ hours.
4. Shape dough into 2 balls, cover and let it rest for 8 minutes.
5. Shape dough into 2 loaves and let rise until doubled in size (1 hour).
6. Preheat oven to 200°C for 15 minutes.
7. Bake in the preheated oven for 35 minutes or until the top is golden.



Total amount of time needed to make the bread:

2 Use what you know about time relationships to complete this cross number puzzle. You may use a calculator.

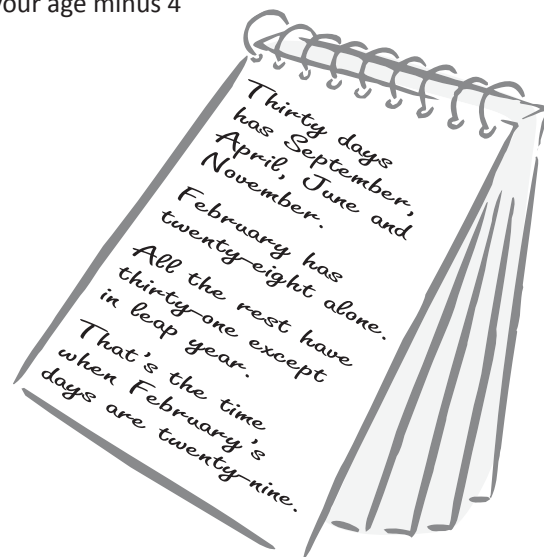


Across

1. years in half a century
2. minutes in $\frac{1}{4}$ of an hour
3. minutes in 1 hour + 20 minutes
4. hours in 1 day
5. days in April
7. hours in 2 days plus 1 hour
8. hours in half a day
9. minutes in $1\frac{1}{4}$ hours
10. minutes in $\frac{2}{3}$ of an hour
11. hours in 4 days and 2 hours
12. your age minus 4

Down

1. years in five decades
2. days in a 2 weeks
3. hours in $\frac{1}{2}$ a week
4. seconds in $\frac{1}{3}$ of a minute
5. days in September plus 9 days of October
6. hours in 3 days
7. minutes in $\frac{3}{4}$ hour
8. seconds in $\frac{1}{6}$ of a minute
9. months in 6 years
10. hours in 2 days





Last weekend, Akhil and three of his friends went on a camping trip. Each person brought different snacks. Each person had different travel times. Each person had a preferred nickname.



Read the clues in order to determine each person's nickname, the amount of time that it took each to arrive, and the snacks each person brought.

- The four nicknames are: Bug, Hank, Tops and Haz (the four friends' names are written in the table).
- The four snacks are: raisins, trail mix, water, and peanuts.
- The four travel times are: 15 minutes, 10 minutes, 20 minutes and 5 minutes.

Clues

1. Houman brought the trail mix and had the longest drive. His drive was 20 minutes.
2. Akhil, whose nickname is Bug, did not bring water or raisins.
3. Sean arrived before the person who brought the trail mix and after the one who brought the raisins.
4. Dan only needed to drive for five minutes. His was the shortest drive.
5. The order of arrival is: the one who brought raisins, the one whose nickname is Tops, Akhil, and the person whose nickname is Haz.

Name	Nickname	Time	Snack
Akhil			
Houman			
Sean			
Dan			



This is a game for 2 players. You will need a copy of this page, a pencil and some paper.



Cut out the cards below and choose one player to be the caller. The other 2 players must write down six digital pm times but only o'clock and half past times. The caller must shuffle the cards well and read out the 24 hour times.

The first player to cross all 6 times is the winner.

Swap roles and play again until everyone has had a turn at being the caller.

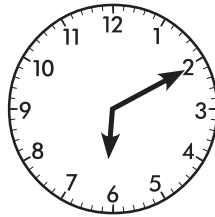
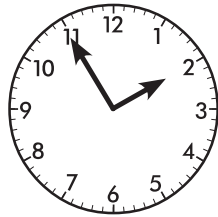
1500	1700	1300	1400
1430	2030	2100	1330
2000	1730	1830	2230
1900	2130	1630	1930
1600	2200	2330	2300

Calculating time – elapsed time

Elapsed time is the difference between 2 different times.

To work out the difference between 2 times first you count the hours then you count the minutes.

1:55 to 6:10



1:55 to 5:55 = 4 hours

5:55 to 6:10 = 15 minutes

Total elapsed time is 4 hours and 15 minutes.

1 How much time is there between:

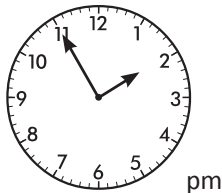
- a Three in the afternoon and eleven that evening? _____
- b 6 am and 1 pm? _____
- c One in the morning and ten in the same morning? _____
- d Seven in the morning until 12:30 pm? _____



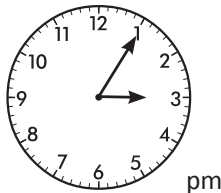
THINK

2 Work out the time elapsed.

a Linh arrived at a party at:



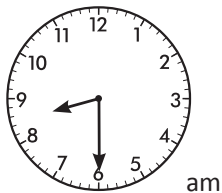
She left at:



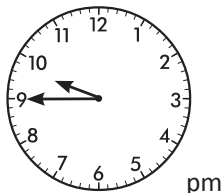
She was at the party for:

minutes

b The bus left at:



It arrived at:

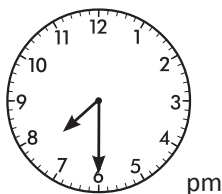


The bus trip took:

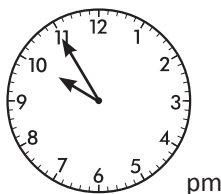
hours

minutes

c The movie started at:



It finished at:



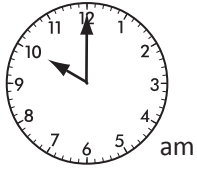
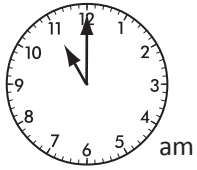
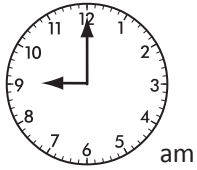
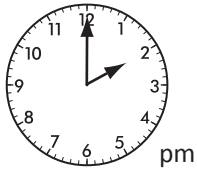
The movie went for:

hours

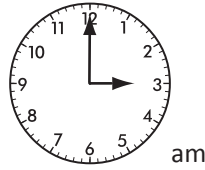
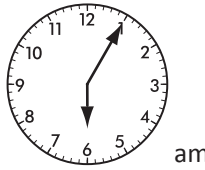
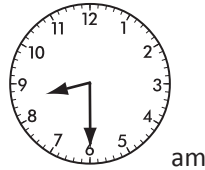
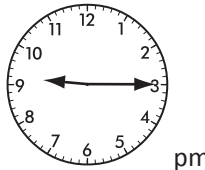
minutes

Calculating time – elapsed time

3 Work out the elapsed time.

<p>Start</p> <p>9:15 am</p> <p>Elapsed time:</p>	<p>Finish</p>  <p>am</p>	<p>Start</p> <p>7:30 am</p> <p>Elapsed time</p>	<p>Finish</p>  <p>am</p>
<p>Start</p> <p>4:00 pm</p> <p>Elapsed time</p>	<p>Finish</p>  <p>am</p>	<p>Start</p> <p>2:00 am</p> <p>Elapsed time</p>	<p>Finish</p>  <p>pm</p>

4 Work out the finish time.

<p>Start</p>  <p>am</p>	<p>Finish</p> <p>:</p> <p>Elapsed time:</p> <p>3 hours 10 minutes</p>	<p>Start</p>  <p>am</p>	<p>Finish</p> <p>:</p> <p>Elapsed time:</p> <p>2 hours 25 minutes</p>
<p>Start</p>  <p>am</p>	<p>Finish</p> <p>:</p> <p>Elapsed time:</p> <p>6 hours 15 minutes</p>	<p>Start</p>  <p>pm</p>	<p>Finish</p> <p>:</p> <p>Elapsed time:</p> <p>4 hours 30 minutes</p>

5 Being able to count forward in intervals is an important skill.

Finish each time trail:

a	Count on in 15 minutes	9:30		10:00	10:15			
b	Count on in 10 minutes	7:42	7:52			8:22		
c	Count on in 15 minutes	6:47			7:32		8:02	
d	Count on in 10 minutes	2:53						

Calculating time – elapsed time

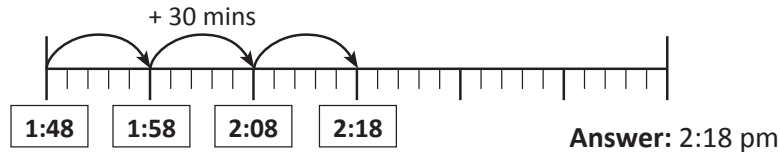
A time line can help us with more difficult elapsed time problems.

Question: A party started at 12:48 pm and went for 1 hour and 30 minutes. What time did it finish?

- Steps:**
1. First count on in hours in your head and write that answer in the first box in the time line.
 2. Use the time line to count on in minutes.
Each small marker represents 2 minutes.
Each large marker represents 10 minutes.



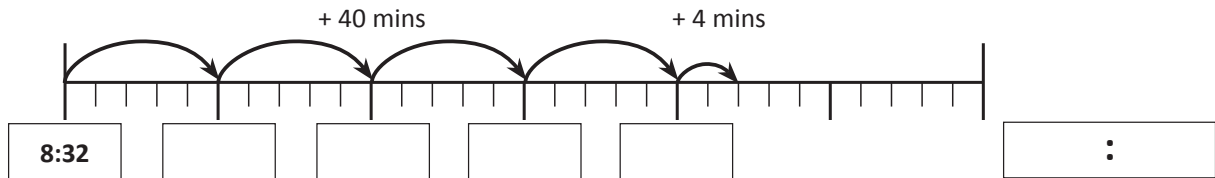
REMEMBER



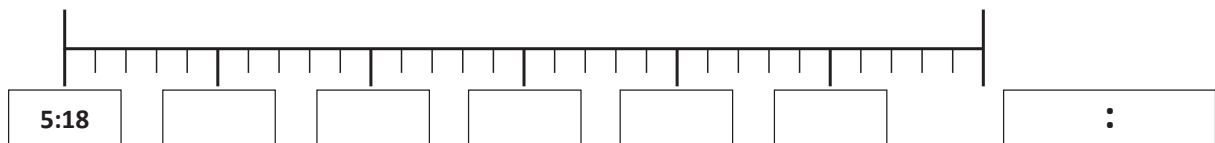
Answer: 2:18 pm

6 Use the time line for each elapsed time problem:

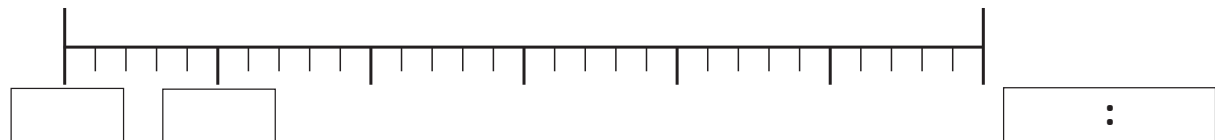
- a** Abdul played the clarinet from 7:32 pm for 1 hour and 44 minutes. What time did he finish?



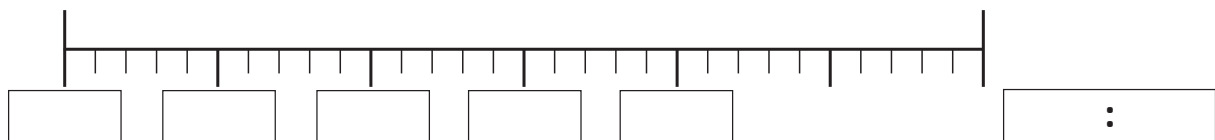
- b** Ali took 3 hours and 52 minutes to wash 12 cars. If she started at 2:18 pm, what time did she finish?



- c** Sarah drove to her friend Nick's house. She left her house at 4:36 pm and the drive took 2 hours and 18 minutes. What time did she arrive?



- d** In order to buy and prepare all the food for the party, Max worked solidly from 2:18 pm for 3 hours and 46 minutes. What time did he stop?



Calculating time – using a stopwatch

The time on this stopwatch is read as:
52 minutes, 38 seconds and 42 hundredths of a second



- 1 For these questions you will need a stopwatch.
Estimate and measure how long it takes to do the following activities down to hundredths of a second.
Write the time as accurately as possible.

Activity	Estimate	Time
Run 200 metres		
Recite the 6 times table		
Eat an apple		
Count to 150		
Write the alphabet 3 times		
Walk to the office		
Write your name neatly 5 times		

- 2 What do these times mean on a stopwatch?

Stopwatch display	Minutes	Seconds	Hundredths of a second
3:51:22			
2:45:79			
1:58:87			
5:45:78			

- 3 Order these times from fastest to slowest:

1:38:42	1:36:65	1:56:89	1:56:99



For this game you will need: a group of 6 players, a die and, a stopwatch.
You will also need a copy of this sheet per group.



The aim of this game is to find out which the fastest. Your first lucky number will be 1, then 2, and so on until all the numbers have been played.

Players sit in a circle. One player stands outside the group timing how long it takes to roll each number on the die with a stopwatch. Start anywhere in circle, pass the die around until a player rolls the lucky number on the die.



The player who rolls the lucky number becomes the timer and the timer joins the circle.

After you have played with all 6 numbers (1 to 6), order the numbers in the table according to how quickly they came up.

This first row in this table shows how you need to record the times.

Number on die	Minutes	Seconds	Hundredths of a second	Ranking fastest to slowest
1	1	34	38	
2				
3				
4				
5				
6				



Compare your table with other groups. Did anyone have a similar ranking of 'lucky' numbers?



"It's mayhem!" moaned Sergeant Nixon as he fought his way backstage through the angry crowds. 100 000 fans had travelled from far and wide to see their idol Max Madness in concert, and they were growing increasingly restless as time ticked on with no Max in sight.



Little did the fans know that Max Madness might not appear at all – his golden electric maximum voltage guitar had been stolen and Max was storming around his dressing room, and refused to go on stage until it was safely back in his possession.

"I've had it with me all day," he spat. "The only time it was out of my sight was when I was getting a massage between 5:00 and 6:00 pm!"

"We'll get it back, Sir," stated Sergeant Nixon stoutly. "No one will get away with that on my watch. This show will go on."

He rounded up 3 likely suspects, all avid fans, who had been found lurking around backstage. All 3 had caught the train to the stadium. And of course, all 3 swore black and blue that they were innocent.

Tina Sparkles, Max's self-appointed number 1 fan, protested, "Well it couldn't have been me! I was getting a spray tan and my nails done at 3 pm. That took 2 hours. It takes time to look good, you know.

Rod Raver, a wanna be rock star, stated desperately, "I was with my mates rehearsing. We started at 3:55 and jammed for $2\frac{1}{2}$ hours. Once Max hears how good I am, he'll want me in his band."

Paparazzi Pete claimed, "Nah, not me, mate. I was filming an event on the other side of town. I got there at 4:15 and worked for an hour until it was time to come here."



One of these suspects arrived at the stadium in time to nick the guitar. Use the train timetable to see whose alibi just doesn't hold up.

Train Timetable	
Departs City	Arrives Rock and Roll Stadium
3:10 pm	3:40 pm
4:00 pm	4:30 pm
4:40 pm	5:10 pm
5:10 pm	5:40 pm
5:40 pm	6:10 pm
6:00 pm	6:30 pm

Answer: _____. Have you and Sergeant Nixon saved the day?

Timetables – reading timetables

Timetables are often used to schedule public transport and can be set up either using digital or 24 hour time.

Burwood to Wynyard								
Burwood	1720	1727	1750	1917	2026	2132	2239	2343
Croydon	---	---	1800	1927	2036	---	2249	---
Ashfield	1735	1742	1805	1932	2041	2146	2254	2358
Summer Hill	---	---	1812	1939	2048	2153	2301	---
Lewisham	1748	1755	1818	1945	2054	2158	2307	0011
Petersham	1753	1800	1823	1948	2057	2101	2310	0009
Stanmore	---	---	1829	1954	2103	2007	2316	---
Newtown	---	---	1836	2000	2110	---	2323	---
Redfern	1811	1818	1841	2005	2114	2017	2327	0024
Central	---	1821	1844	2008	2118	2020	2330	0027
Town Hall	---	---	1848	2012	2122	2024	2334	0031
Wynyard	1823	1830	1853	2017	2126	2028	2338	0036

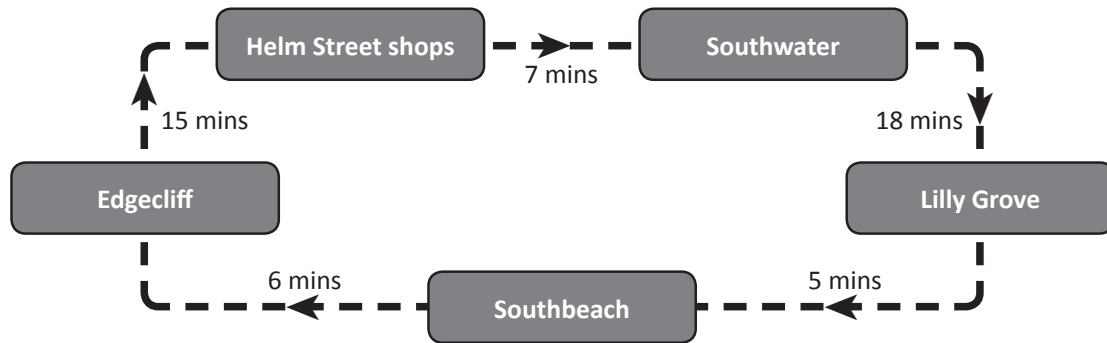
1 Use the timetable to answer the questions below:

- What time does the 7:17 pm train from Burwood arrive at Petersham? _____
- What time does the quarter to eight train from Lewisham arrive at Town Hall? _____
- Can I catch the 5:35 pm from Ashfield if I want to get off at Stanmore? _____
- Which stations does the last train from Burwood miss?

- At what time does the 8:36 pm Croydon train leave Newtown? _____
- Omar arrives at Redfern station at ten to six in the evening.
How long does he have to wait for the next train? _____ minutes

Timetables – reading timetables

- 2 This diagram shows the route of a shuttle bus and the length of time between stops.



- a If you leave Edgecliff at 7:55 am, what time can you expect to be at Lilly Grove? _____
- b What time did you get on the bus at Southbeach if it is 5:00 pm when you get off at Helm Street shops? _____

- 3 The timetable below is from a fitness club.

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:30 am	Boxing	Yoga	Cardio	Cardio	Squash	Pilates	Pilates
9:30 am	Pilates	Squash	Yoga	Weights	Cardio	Squash	Weights
10:30 am	Cardio	Pilates	Pilates	Squash	Pilates	Cardio	Squash
4:30 pm	Yoga	Boxing	Squash	Pilates	Boxing	Weights	Cardio
5:30 pm	Squash	Weights	Boxing	Boxing	Weights	Yoga	Yoga

Fill in the blank in each person's statement:

- a Paula says to her friend:
 "I can meet you on Monday but we have to finish by _____ as it takes me 30 minutes to drive to my yoga class."
- b Linh says to her friend:
 "I can meet you at _____ after my squash game on Sunday. My game takes 45 minutes and then the drive will take me 10 minutes maximum."
- c Michael says to his friend:
 "I'll meet you for dinner after my boxing training that goes for $1\frac{1}{2}$ hours on Thursday night. It will take me 10 minutes to shower and 20 minutes to drive there so I will meet you at _____."

Timetables – working out travel time

Quite often when we use public transport we need to be able to work out how we are going to use more than one mode of transport. We do this by working backwards. Look at this question based on the timetables below:

We can see that Carlsford is the connecting point between the train and the bus.

To get to Fisherman's Wharf by 1:30 pm, he needs to catch the 12:20 pm bus from Carlsford. To catch the 12:20 pm bus at Carlsford, he needs to catch the 12:05 pm train from Trinian Street and change to the bus platform.

Ben is at Trinian Street and wants to meet his friend at Fisherman's Wharf at 1:30 pm.

Train	Bus
Catch the 12:05 pm from Trinian Street. Change at Carlsford and wait 2 minutes.	Catch the 12:20 pm from Carlsford. Arrive at Fisherman's Wharf 1:12 pm.

Train				
Knightscope	10:16 am	11:16 am	12:16 pm	1:16 pm
Fig Tree Park	10:21 am	11:21 am	12:21 pm	1:21 pm
Trinian Street	11:05 am	12:05 pm	1:05 pm	2:05 pm
Carlsford	11:15 am	12:18 pm	1:16 pm	2:17 pm

Bus				
Carlsford	11:20 am	12:20 pm	1:20 pm	2:20 pm
Nottsville	11:50 am	12:50 pm	1:50 pm	2:50 pm
Fisherman's Wharf	12:12 pm	1:12 pm	2:12 pm	3:12 pm
Slamton	12:32 pm	2:32 pm	3:32 pm	4:32 pm

- 1 Give each person the travel details they need to arrive at their destination on time. Remember to work backwards and to find the connecting point.**

- a** Akhil is at Trinian Street and wants to go shopping at Nottsville. He would like to get there at 3 pm.

Train	Bus



- b** Masuka is at Knightscope and needs to get to Fisherman's Wharf for his 12:30 pm shift at the fish and chips shop.

Train	Bus



- c** Mish is at Fig Tree Park and wants to meet her friend at Slamton at 3:40 pm.

Train	Bus





Five friends like five different TV shows: a cartoon, a crime show, a reality show, football and a sitcom. They all air on different channels (2, 7, 9, 10, 12) and on different nights of the week. Your job is to match the friend with their favourite show.



Read the clues below and use the information to eliminate possibilities. Show your choices on the grid below. You may want to use the grid on the following page to help you arrange your thoughts.

1. Luke's favourite show airs on the weekend. He doesn't watch crime shows and thinks sitcoms are a waste of time.
2. The sitcom airs on Tuesday evening on Channel 12.
3. The cartoon is on Channel 10.
4. Hung's show is on the lowest numbered channel on the first day of the school week. He can't stand reality TV.
5. No one's favourite show is on Sunday or Friday.
6. Macey hates sports. Her favourite show is Hung's least favourite show and airs 2 days after Jamie's.
7. The crime show airs on Channel 2.
8. Britt's favourite show airs on Wednesdays on Channel 10.
9. Jamie's show airs on Channel 12, one day before Britt's favourite show.
10. Football airs on Saturday on Channel 7.

Name	Show	Night	Channel
Luke			
Macey			
Jamie			
Hung			
Britt			

Puzzle Grid

	Luke	Macey	Jamie	Hung	Britt
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					
Saturday					
Sunday					
Sport					
Reality					
Crime					
Cartoon					
Sitcom					
Channel 2					
Channel 7					
Channel 9					
Channel 10					
Channel 12					



You have been given the task of writing the school year-end program for the Circus School Royale.



Use trial and error to work out which activities fit within the 8 session times exactly to create a daily program. Start by looking at how much time there is between breaks, then decide on the best way to order the activities.

The time between breaks must equal the combined time of the activities you choose.

Allow 5 minutes after breaks for everyone to get to the next session.

Start times for the sessions after breaks are written in.

Order of activities may vary.



Activity	Duration
Clown school	1 hour
Acrobatics	$1\frac{1}{2}$ hours
Flying trapeze	40 minutes
Balloon animals	45 minutes
Fire juggling	35 minutes
Unicycling	55 minutes
Magic tricks	50 minutes
Face painting	25 minutes

Session	Time	Activity
1	9:00	
2		
	11:30 – 12:10	Recess
3	12:15	
4		
	1:30 – 2:30	Lunch
5	2:35	
6		
7		
	4:35 – 5:00	Break
8	5:05	
	6:00	Home

