





Time



Copyright © 2009 3P Learning. All rights reserved.

First edition printed 2009 in Australia.

A catalogue record for this book is available from 3P Learning Ltd.

ISBN 978-1-921860-43-0

Ownership of content The materials in this resource, including without limitation all information, text, graphics, advertisements, names, logos and trade marks (Content) are protected by copyright, trade mark and other intellectual property laws unless expressly indicated otherwise.

You must not modify, copy, reproduce, republish or distribute this Content in any way except as expressly provided for in these General Conditions or with our express prior written consent.

Copyright Copyright in this resource is owned or licensed by us. Other than for the purposes of, and subject to the conditions prescribed under, the Copyright Act 1968 (Cth) and similar legislation which applies in your location, and except as expressly authorised by these General Conditions, you may not in any form or by any means: adapt, reproduce, store, distribute, print, display, perform, publish or create derivative works from any part of this resource; or commercialise any information, products or services obtained from any part of this resource.

Where copyright legislation in a location includes a remunerated scheme to permit educational institutions to copy or print any part of the resource, we will claim for remuneration under that scheme where worksheets are printed or photocopied by teachers for use by students, and where teachers direct students to print or photocopy worksheets for use by students at school. A worksheet is a page of learning, designed for a student to write on using an ink pen or pencil. This may lead to an increase in the fees for educational institutions to participate in the relevant scheme.

Published 3P Learning Ltd

For more copies of this book, contact us at: www.3plearning.com/contact

Designed 3P Learning Ltd

Although every precaution has been taken in the preparation of this book, the publisher and authors assume no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of this information contained herein.

Series D - Time

Contents

Topic 1 – Telling time (pp. 1–8)

Date completed

- quarter to and quarter past
- five minute intervals past the hour
- five minute intervals to the hour ______
- digital_____
- coded clocks apply _____
- claim the times apply _____

Topic 2 – Measuring time (pp. 9–16)

- am and pm_____
- time facts_____
- time trails_____
- calendars _____
- timetables _____
- calendar dates solve _____
- calendar match apply _____ /

Series Author:

Nicola Herringer

Copyright © 3P Learning



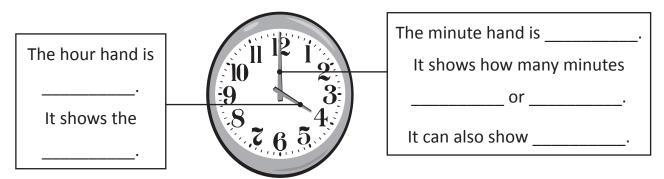
Telling time – o'clock and half past

The minute hand is on 12 and the hour hand is on 4.

4 o'clock

The minute hand is on 6 and the hour hand is half way between 4 and 5.

Complete these labels of the clock hands by writing these words in the correct places – long, short, hours, past, to and o'clock:



2 Draw a line to connect each of these clocks to the matching times:

Remember when it is half past, the hour hand points between the hours.

Remember when it is half past, the hour hand points between the hours.

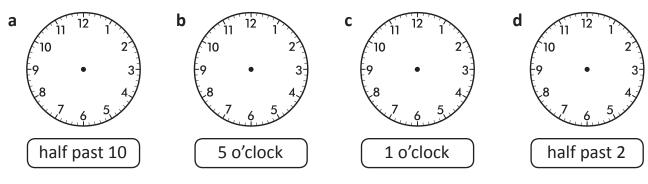
Remember when it is half past, the hour hand points between the hours.

Remember when it is half past, the hour hand points between the hours.

Remember when it is half past, the hour hand points between the hours.

Remember when it is half past, the hour hand points between the hours.

3 Draw the hour and minute hands on each clock to show the correct time:

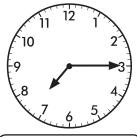


Telling time – quarter to and quarter past

When the minute hand is on 9, it is 15 minutes to the hour or it has a quarter of the way to go before it reaches the hour.





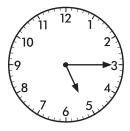


hand is on 3, it is 15 minutes past the hour or it has gone a quarter of the way around the clock face.

When the minute

Write either 'past' or 'to' in the blanks:

a



A quarter

_____ 5.

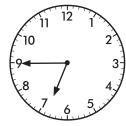
b



A quarter

____6.

C



A quarter

_____ 7.

d



A quarter

11.

2 Draw a line to connect each clock to its time label. Each clock has more than one label.









15 minutes past 9

a quarter to 3

a quarter past 8

15 minutes past 4

15 minutes past 8

15 minutes to 11

a quarter past 4

15 minutes to 3

a quarter to 11

a quarter past 9

Remember that a quarter of an hour is 15 minutes. That is why we say a quarter past and a quarter to.

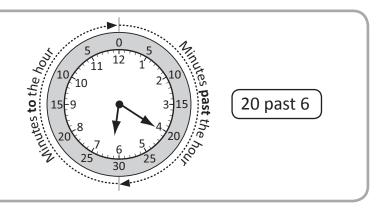


REMEMBER



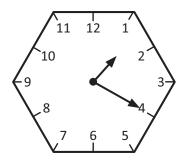
Telling time – five minute intervals past the hour

It takes 5 minutes for the minute hand to move from one number to the next. The time shown on this clock is 20 minutes past 6.

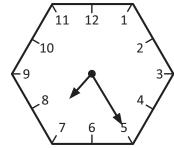


Complete these labels of the clock hands:

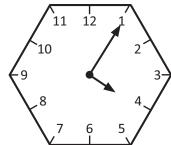
a



past _

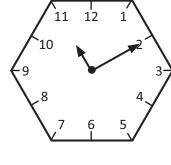


_ past _



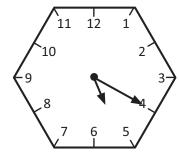
_ past ____

d



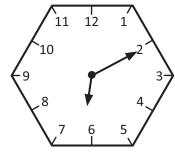
___ past ____

e



_____ past ____

f



_____ past ____

Draw the minute hand on each watch according to the label:

a





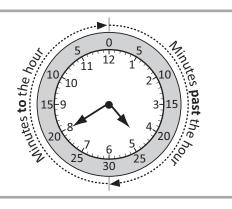
C



Telling time – five minute intervals to the hour

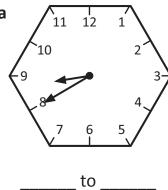
When the time is later than half past, instead of saying the number of minutes after the hour we usually say the number of minutes before or **to** the next hour.

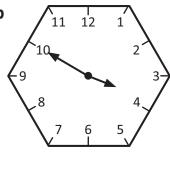
20 to 5



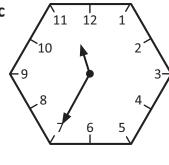
Complete these labels of the clock hands:

a



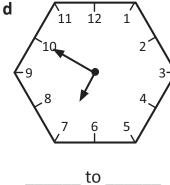


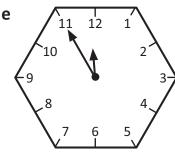
to



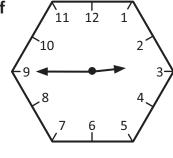
to







____ to ____

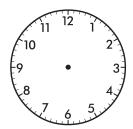


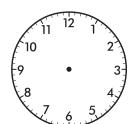
____ to ____

Draw the hands on the clocks to show these times.

a







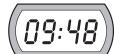
Telling time – digital

Digital time is always read as minutes past the hour. This digital time could be read as 24 minutes past 8 *or* eight twenty four. Digital clocks often display a zero when the hour is a single digit.



1 Draw a line to connect each of these digital times to how they could be read:









16 minutes past 3

25 minutes past 4

48 minutes past 9

23 minutes past 7

2 Write the times on the digital clock radios. The first one has been done for you.

a seven twenty

<u>n</u>	7		כ	Ω
u	'	•	_	

b 13 minutes past 4



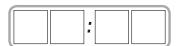
c 25 minutes past 2



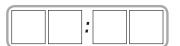
d four thirty two



e 28 minutes past 6



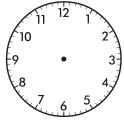
f nine fifty two



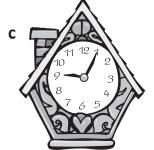
3 Complete this row of analogue and digital clocks so each pair displays the same time:



b



08:15



d 11 12 1 10 2 9 • 3 8 4 7 6 5

(10:25)

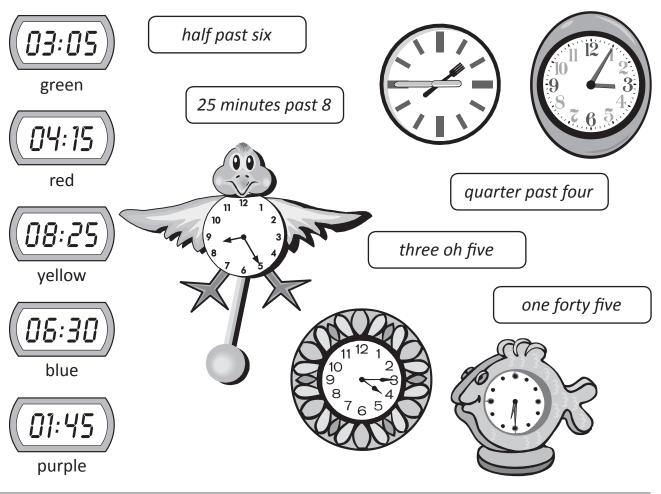
Telling time – digital

When we read out digital time, we read the digits left to right. Complete the table to match how we say digital time to what it means. The first one has been done for you.

	Digital time	How we say it	What it means
а	01:07	one oh seven	7 minutes past 1
b	03:02		
С	05:17		
d	(12:15)		



5 Colour match the times to each digital clock:

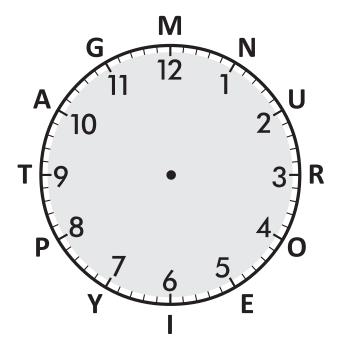




Coded clocks apply



Solve the riddle below by finding the matching letter for each amount of minutes, to or past hours on the clock face.



Riddle: Wh	at did the so	ck say to th	e foot?			
25 to	20 past	10 past		10 to	15 past	25 past
20 to	10 past	15 to	quarter to	30 past	five past	five to
	o'clock	25 past		20 past	5 past	

Claim the times apply



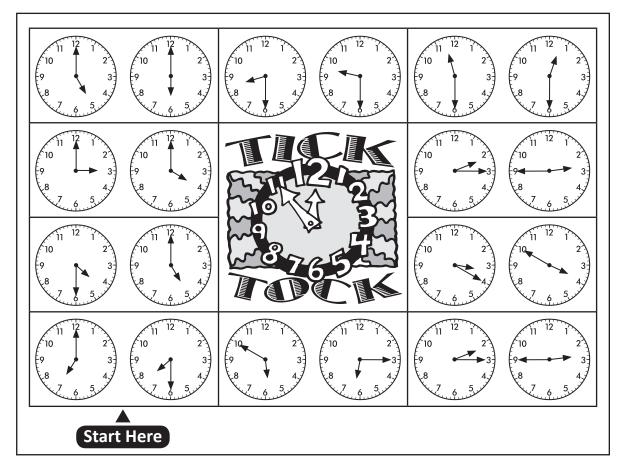
This is a game for 2 players. You will need a copy of this page, a die and 10 counters each. Choose a different counter colour for each player.





Roll the die and move clockwise around the game board. You must claim a digital time that comes between the 2 clocks that you landed on. You do this by placing your counter on the digital time. Keep moving around the game board until one player has no counters left. This person is the winner.

05:15	(04:55)	(02:40)	02:25	(03:45)	(02:30)	(05:40)
07:15	04:45	03:30	03:45	(02:30)	12:15	11:45
(08:45)	09:00	05:30	06:10	06:00	07:05	01:45





Measuring time - am and pm

am means before midday.

pm means after midday.

Meet me at 7 am just after breakfast.



Meet me at 7 pm just after dinner.



Connect the times to either am or pm with a line:

- **a** 6 o'clock in the evening •
- **b** 6 o'clock in the morning •
- c 2 o'clock in the morning •
- d 2 o'clock in the afternoon •
- e 1 o'clock after bedtime •
- f 1 o'clock after lunch •





2 Circle the time in the table that best matches the following:

а	After lunch	6 am	6:30 am	2 pm
b	Before school	7:30 pm	7:30 am	2 am
С	Bedtime	7:30 am	8:30 pm	9 am
d	Dinner time	5:30 am	1:30 pm	6 pm
е	When I have my afternoon tea	4 am	4:30 pm	11 pm

The latest pm time is 11:59. So midnight is 12:00 am and then it is a new day.

3 Add two hours to each of these digital times:

- **a** 9:52 am _____
- **b** 3:15 pm
- _____

- **c** 7:30 pm _____
- **d** 6:48 am



THINK



f 3:59 am





Measuring time – time facts

It is important to learn these time facts:

60 seconds = 1 minute

60 minutes = 1 hour

24 hours = 1 day

7 days = 1 week

Use the information above to answer these:

- **a** hours in 1 day
- **b** hours in 2 days

- c minutes in 2 hours =
- **d** days in 2 weeks

- e seconds in 1 minute = ____
- **f** seconds in $\frac{1}{2}$ a minute = _____

Estimate how many seconds it takes for each activity. Then, use a timer or a stopwatch and record how long each activity actually takes.

	Activity	Estimated time	Actual time
а	Say the alphabet at normal speed.		
b	Write your name neatly 3 times.		
С	Do 20 star jumps.		
d	Drink a glass of water at normal speed.		
е	Roll a die 6 times and record each number.		

Use your basic time facts to work out who took longer. Circle the correct answer:

a Max took 75 seconds to brush his teeth.

Milly took $1\frac{1}{2}$ minutes.

Max / Milly

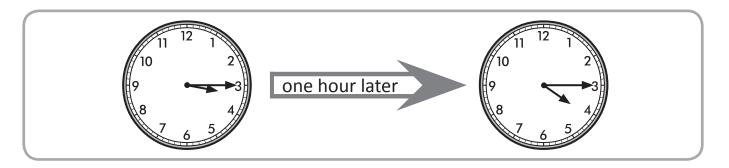
b Charlie completed the hike after 130 minutes. It took Claire 2 hours.

Charlie / Claire

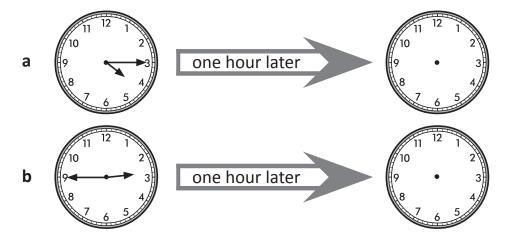
c The Darnleys went on holiday for 22 days. The Sommers went on their holidays for 3 weeks.

Darnleys / Sommers

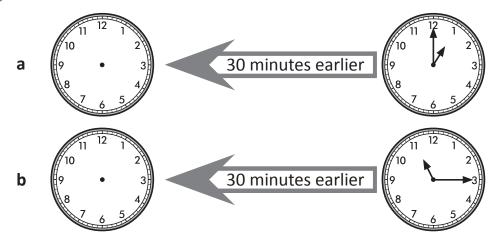
Measuring time – time trails



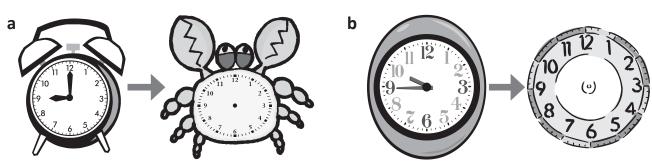
1 Show the time that is one hour later:



2 Write the time that is half an hour earlier:

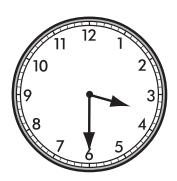


3 Show the time 30 minutes later on each clock:



Measuring time – time trails

The minute hand moves around the clock to mark 60 minutes every hour. Between each number there are 5 minutes.



So, 45 minutes later than 3:30 is 4:15.

4 Write the number of minutes it takes the minute hand to move from the following:

a 6 to 7

b 6 to 9

c 12 to 3

d 7 to 11

e 8 to 10

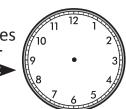
f 6 to 12

5 Show the time on each clock:

а



10 minutes later



b

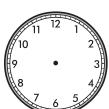


55 minutes later



C 11 12 1

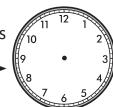
25 minutes later



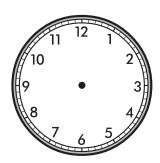
d



35 minutes later



6 Ellie went to her friend's house at 4:15 pm and was home 45 minutes later. At what time was she home? Show it on this clock face:

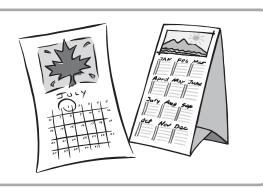




Measuring time – calendars

A calendar shows how the year is organised into months, weeks and days.

One year can be thought of as 12 months long or 52 weeks long or 365 days long (sometimes 366 days long).



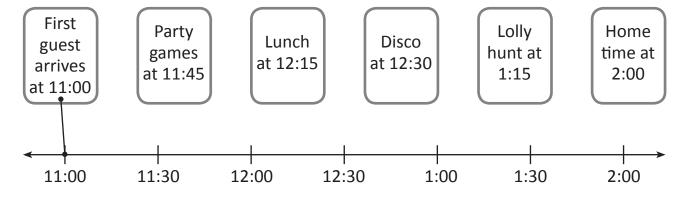
Answer the questions about the first 2 months of the year.

	January					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				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

	February					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
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

- a How many school days are there in February?
- **b** What day of the week is the 20th January?
- **c** How many Mondays are there in January?
- **d** What is the date of the last Wednesday in February?
- e What dates is the third weekend in February?
- **f** What day of the week is the 1st of March?

A timeline shows the order of events. Draw a line to match each of the events of Mick's party to the timeline. The first one has been done for you.



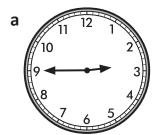
Measuring time – timetables

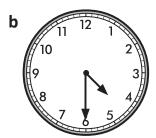
3 The questions below relate to Zara the zoo keeper's typical daily timetable:

5:15 am	Wake up, have breakfast	
6:00 am	Feed the lions and tigers	
6:30 am	Wash the elephants	
7:00 am	Clear out reptile cages	
9:00 am	Weigh the baby penguins and record their growth	
10:15 am	Train the seals to cartwheel	
11:30 am	Play with the pandas	
12:30 pm	Lunch	
1:30 pm	Guide a school tour	
2:45 pm	Bottle feed the baby possums	
3:15 pm	Scrub the shells of the giant tortoises	3 (2)
4:00 pm	Give a talk on endangered animals	
5:00 pm	Guide a twilight tour	NII VIII
6:00 pm	Close zoo gates	

- a How long does it take Zara to feed the lions and tigers?
- **b** At 8:00 am, what will Zara most likely be doing?
- **c** Zara washes the elephants at ______.
- d How long does it take to weigh the baby penguins and record their growth?
- **e** Zara spends _____ minutes training the seals.
- f How long does a guided school tour go for?
- **g** What does Zara do at a quarter past three?
- **h** How long does the talk on endangered animals go for? ____

4 What is Zara doing at each of these times?





Calendar dates solve



For this challenge, you just need this page and a pencil.



For each question read the clues and write the answers below:

	September					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		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			

а	If today is Saturday,
	19th September, what is
	the day and date 2 weeks
	from now?

October						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				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

b If today is Monday, 5th October, what is the day and date 3 weeks from tomorrow?

November Wednesday Thursday Saturday Monday Tuesday Friday Sunday 2 5 6 3 4 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

- c Sally's birthday is on 21st September. Ellie's birthday is 3 weeks earlier. What day of the week is Ellie's birthday?
- d Harley's birthday is on 25th October. Toni's birthday is 10 days after Harley's. What date is Toni's birthday?



This is a race for 2 players. You will need a copy of this page because you will need to cut out the cards below.





Cut out the months of the year cards (there are 24). Shuffle them

y to do			
January	January		
February	February		
March	March		
April	April		
May	May		
June	June		
July	July		
August	August		
September	September		
October	October		
November	November		
December	December		

and lay them face down. Take turns to draw a card and tick off an item on the checklist. The person who ticks off all their items first wins.

Checklist

- 1 The 8th month of the year.
- **2** Your birthday month.
- **3** The month before Christmas.
- 4 2 months after July.
- **5** 3 months before February.
- **6** A month with 31 days.
- **7** A month that has a different number of days in a leap year.
- **8** A month with 30 days.
- **9** The 10th month of the year.
- **10** The month of Christmas.
- **11** 4 months after April.
- **12** The 11th month of the year.
- 13 This month starts with 'O'.
- 14 This month starts with 'M'.

