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 halfway between 4 and 5.

half past 4

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

The hour hand is __________.
It shows the __________.

The minute hand is __________.
It shows how many minutes __________ or __________.
It can also show __________.

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

half past 3 7 o’clock half past 8 half past 9

half past 3 7 o’clock half past 8 half past 9

REMEmber

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:

a b c d

half past 10 5 o’clock 1 o’clock half past 2
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. When the minute hand is on 3, it is 15 minutes past the hour or it has gone a quarter of the way around the clock face.

1. Write either ‘past’ or ‘to’ in the blanks:
   a. A quarter _______ 5.
   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.

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

1. Complete these labels of the clock hands:

   a. __20__ past __1__
   b. __25__ past __7__
   c. __5__ past __4__
   d. __10__ past __11__
   e. __20__ past __5__
   f. __10__ past __6__

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

   a. __5 past 3__
   b. __25 past 3__
   c. __10 past 3__
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.

1. Complete these labels of the clock hands:
   a. 20 to 9
   b. 10 to 4
   c. 25 to 12
   d. 10 to 7
   e. 5 to 12
   f. 15 to 3

2. Draw the hands on the clocks to show these times.
   a. 20 to 2
   b. 10 to 8
   c. 5 to 6
**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:**

   - 07:23: 16 minutes past 3
   - 09:48: 25 minutes past 4
   - 04:25: 48 minutes past 9
   - 03:16: 23 minutes past 7

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

   - a. seven twenty
     - 07:20
   - b. 13 minutes past 4
     - 04:13
   - c. 25 minutes past 2
     - 02:25
   - d. four thirty two
     - 04:32
   - e. 28 minutes past 6
     - 06:28
   - f. nine fifty two
     - 09:52

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

   - a. 07:10
   - b. 08:15
   - c. 09:05
   - d. 10:25
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.

<table>
<thead>
<tr>
<th>Digital time</th>
<th>How we say it</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td>a 01:07</td>
<td>one oh seven</td>
<td>7 minutes past 1</td>
</tr>
<tr>
<td>b 03:02</td>
<td>three oh two</td>
<td>2 minutes past 3</td>
</tr>
<tr>
<td>c 05:17</td>
<td>five seventeen</td>
<td>17 minutes past 5</td>
</tr>
<tr>
<td>d 12:15</td>
<td>twelve fifteen</td>
<td>15 minutes past 12</td>
</tr>
</tbody>
</table>

Colour match the times to each digital clock:

- **03:05** green  
  - half past six blue
- **04:15** red  
  - 25 minutes past 8 yellow
- **08:25** yellow  
  - three oh five green
- **06:30** blue  
  - one forty five purple
- **01:45** purple  
  - yellow
Solve the riddle below by finding the matching letter for each amount of minutes, *to* or *past* hours on the clock face.

Riddle: What did the sock say to the foot?

<table>
<thead>
<tr>
<th>25 to</th>
<th>20 past</th>
<th>10 past</th>
<th>10 to</th>
<th>15 past</th>
<th>25 past</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>O</td>
<td>U</td>
<td>A</td>
<td>R</td>
<td>E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>20 to</th>
<th>10 past</th>
<th>15 to</th>
<th>quarter to</th>
<th>30 past</th>
<th>five past</th>
<th>five to</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>U</td>
<td>T</td>
<td>T</td>
<td>I</td>
<td>N</td>
<td>G</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>o’clock</th>
<th>25 past</th>
<th>20 past</th>
<th>5 past</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>E</td>
<td>O</td>
<td>N</td>
</tr>
</tbody>
</table>
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.
Measuring time – am and pm

am means before midday.

pm means after midday.

1. 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:

   a. After lunch
      - 6 am
      - 6:30 am
      - 2 pm
   b. Before school
      - 7:30 pm
      - 7:30 am
      - 2 am
   c. Bedtime
      - 7:30 am
      - 8:30 pm
      - 9 am
   d. Dinner time
      - 5:30 am
      - 1:30 pm
      - 6 pm
   e. When I have my afternoon tea
      - 4 am
      - 4:30 pm
      - 11 pm

3. Add two hours to each of these digital times:

   a. 9:52 am 11:52 am
   b. 3:15 pm 5:15 pm
   c. 7:30 pm 9:30 pm
   d. 6:48 am 8:48 am
   e. 5:15 pm 7:15 pm
   f. 3:59 am 5:59 am

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

1. Use the information above to answer these:
   a. hours in 1 day = 24
   b. hours in 2 days = 48
   c. minutes in 2 hours = 120
   d. days in 2 weeks = 14
   e. seconds in 1 minute = 60
   f. seconds in \( \frac{1}{2} \) a minute = 30

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Estimated time</th>
<th>Actual time</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Say the alphabet at normal speed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Write your name neatly 3 times.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Do 20 star jumps.</td>
<td></td>
<td>Answers will vary.</td>
</tr>
<tr>
<td>d. Drink a glass of water at normal speed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Roll a die 6 times and record each number.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. 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:

   a.

   ![Clock showing 3:00](image1)
   ![Clock showing 4:00](image2)

   b.

   ![Clock showing 3:00](image3)
   ![Clock showing 4:00](image4)

2. Write the time that is half an hour earlier:

   a.

   ![Clock showing 3:00](image5)
   ![Clock showing 2:30](image6)

   b.

   ![Clock showing 3:00](image7)
   ![Clock showing 2:30](image8)

3. Show the time 30 minutes later on each clock:

   a.

   ![Clock showing 3:00](image9)
   ![Clock showing 3:30](image10)

   b.

   ![Clock showing 3:00](image11)
   ![Clock showing 3:30](image12)
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:

- a 10 minutes later
- b 55 minutes later
- c 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:
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).

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

<table>
<thead>
<tr>
<th>January</th>
<th>February</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun</td>
<td>Mon</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
</tr>
</tbody>
</table>

a  How many school days are there in February? _______________________

b  What day of the week is the 20th January? _______________________

  Tuesday

  4

  25th

  21st, 22nd

  Sunday

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?

2 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:

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

a  How long does it take Zara to feed the lions and tigers? 30 minutes or half an hour
b  At 8:00 am, what will Zara most likely be doing? Clearing out reptile cages
c  Zara washes the elephants at 6:30 am.
d  How long does it take to weigh the baby penguins and record their growth? 1 hour 15 minutes
e  Zara spends 75 minutes training the seals.
f  How long does a guided school tour go for? 1 hour 15 minutes
g  What does Zara do at a quarter past three? Scrubs tortoises
h  How long does the talk on endangered animals go for? 1 hour

4 What is Zara doing at each of these times?

a  9:00 am  Bottle feeding baby possums
    10:00 am  Giving a talk
For this challenge, you just need this page and a pencil.

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

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

**Saturday, 3rd October**

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

**Tuesday, 27th October**

### c
Sally’s birthday is on 21st September. Ellie’s birthday is 3 weeks earlier. What day of the week is Ellie’s birthday?

- **Monday**

### d
Harley’s birthday is on 25th October. Toni’s birthday is 10 days after Harley’s. What date is Toni’s birthday?

- **November 4**
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 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’.

<table>
<thead>
<tr>
<th>Month</th>
<th>Month</th>
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<tbody>
<tr>
<td>January</td>
<td>January</td>
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<td>December</td>
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</table>