



Activity sheets

Discover time and distance in the Clocks and watches Gallery

Part 1 Explore

Welcome to the Clocks and watches Gallery (Rooms 38–39)

Clocks and watches measure time. This gallery looks at the different forms, sizes and shapes clocks and watches can take.

Time

Time is used to put events in order from the past through the present into the future.

There are many units of time, including seconds, minutes, hours, days and years. Can you think of any more?

Task 1: Pick a clock or watch you would give as a present

a) What is the name of your clock or watch?

.....

b) Who would you give your clock/watch to?

.....

c) Why?

.....

d) Draw your clock or watch.



e) What is it used for?

.....

Task 2: Prepare a presentation (pair work)

a) Find a partner to work with.

b) Show your partner the clock or watch that you picked in task 1.

c) Decide in your pair which one of the two clocks or watches you would like to present back to the rest of the group.

d) Gather information on your chosen clock or watch.

e) Present your findings to your group.

Include the following information about your clock or watch:

- The name of the clock or watch.
- Where it is from.
- When it was made.
- What it is made from.
- What it was used for and who might have used it.
- What it looks like.

Talk about how you think it got to the Museum. Tell the group why you chose this object.

Part 2 Maths in action

Find this object (Case 5)

This is the mechanical galleon

This elegant clock is a model of a galleon and was used to entertain and impress guests at banquets.

Galleons were large sailing ships used in the 16th century by European traders to transport precious goods from one continent to another, and by navies for battle.

The largest type of ship of that time was the Manila galleon and it transported goods like jade, pearls, ivory, silver and gold between Spain, Central America and Asia.



Task 1: Imagine you are a Spanish captain of a Manila galleon

Acapulco (Mexico) to Manila (Philippines) is 14,350 kilometres (km) or 8,900 miles

Acapulco to Seville (Spain) is 9,200 kilometres (km) or 5,700 miles

a) Work out the distance you would travel from Acapulco to Manila and then back to Acapulco again

i. in **miles** =

.....

ii. in **km** =

.....

b) Work out the total distance travelled by the precious goods from Manila to Seville, via Acapulco.

i. in **miles** =

.....

ii. in **km** =

.....

c) How long do you think it would take to sail from Acapulco to Manila?

.....

Task 2: Work out the time differences

Acapulco and Manila are in different time zones
If Manila is 13 hours ahead of Acapulco

a) What time is it in Acapulco when it is

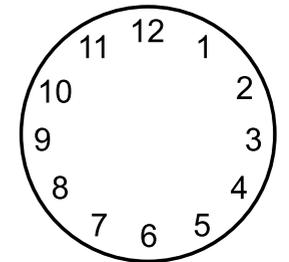
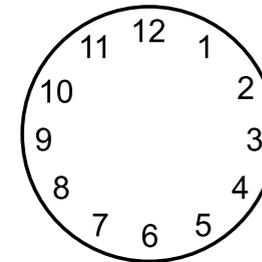
i) 12am (midnight) in Manila?

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ii) 6.30pm in Manila?

.....

b) Draw your answers on these clocks.



c) Write these times in 24-hour clock.

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