

## Measures

**Convert between different units of measure (for example, kilometre to metre)**

An athlete runs 1000m. How many kilometres does the athlete run?

**1km**

A bag of sugar weighs 1kg. How much would half the bag weigh in grams?

**500g**

**Estimate and compare different measures**

Estimate and measure the length of the playground to the nearest metre.

Collect two mugs and estimate the larger and smaller. Fill one and pour into the other to check.

Estimate and measure the weight of some bags of rice containing  $\frac{1}{2}$ kg, 1kg and 2kg of rice.

## Money

**Estimate, compare and calculate different measures, including money in pounds and pence**

Collect a small pile of five coins and estimate their value. Calculate the value.



# Measurement Mat

## Working towards Year 4

### Problems

**Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days**

A film lasts 90 minutes. How long is the film in hours and minutes?

**1 hour and 30 minutes**

There are seven days in a week. How many days are there in three weeks?

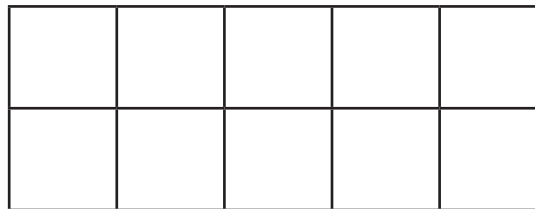
**21 days**

### Shape

**Measure and calculate the perimeter of a rectangle (including squares) in centimetres and metres**

Find the area of rectangles by counting squares

Find the perimeter and area of this rectangle:



Perimeter = **14cm**

Area = **10cm<sup>2</sup>**

## Time

**Convert between different units of measure (for example, hour to minute)**

How many minutes in an hour?

**Estimate, compare and calculate different measures**

Estimate how long it takes to walk to local landmarks (library or supermarket,...).

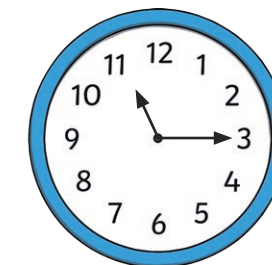
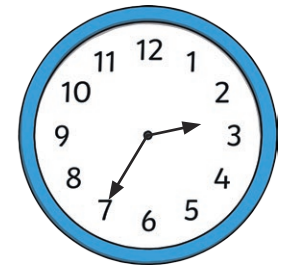
Make the walk and time it.

**Read, write and convert time between analogue and digital 12-hour clocks**

What is the time on each of these clocks?

Give each answer in as many forms as possible.

**2:35 or twenty-five minutes to 3**



**11:15 or quarter past 11**



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## Measures

**Convert between different units of measure (for example, kilometre to metre)**

An athlete runs 7500m. How many kilometres does the athlete run?

**7.5km**

A bag of sugar weighs 1.5kg. How much would half the bag weigh in grams?

**750g**

**Estimate, compare and calculate different measures**

Estimate and measure the length of the playground.

Collect three mugs and estimate the largest and smallest. Measure to check.

Estimate and measure the weight of some classroom objects.

# Measurement Mat

## Expected Year 4

## Problems

**Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days**

A film lasts 95 minutes. How long is the film in hours and minutes?

**1 hour and 35 minutes**

A girl's birthday is in a week and four days. How many days until the girl's birthday?

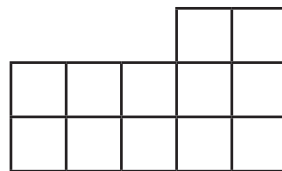
**11 days**

## Shape

**Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres**

Find the area of rectilinear shapes by counting squares

Find the perimeter and area of this rectangle:



Perimeter = **16cm**

Area = **12cm<sup>2</sup>**

## Time

**Convert between different units of measure (for example, hour to minute)**

How many minutes in two hours?

**Estimate, compare and calculate different measures**

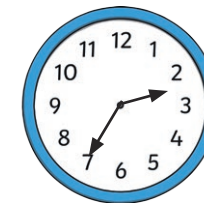
Estimate how long it takes to walk to some local landmarks (library, supermarket,...).

Make the walk and time each one. Compare how long each walk took.

**Read, write and convert time between analogue and digital 12- and 24-hour clocks**

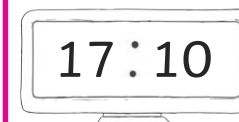
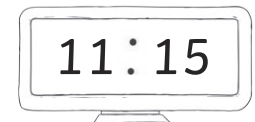
All these times are in the daytime. What is the time on each of these clocks?

Give each answer in as many forms as possible.



**2:35pm, 14:35 or twenty-five minutes to three**

**11:15am, 11:15 or quarter past 11**



**5:10pm, 17:10 or ten minutes past five**



**Estimate, compare and calculate different measures, including money in pounds and pence**

Collect a pile of coins and estimate their value. Collect them into piles of each coin and calculate the value.

## Measures

**Convert between different units of measure (for example, kilometre to metre)**

An athlete runs 7500m. Another runs 6.5km. How much longer does the first athlete run?

A bag of sugar weighs 1.5kg. How much would a third of the bag weigh in grams?

**Estimate, compare and calculate different measures**

Estimate and measure the length and width of the playground.

Collect four or five mugs and estimate the order of capacity from largest to smallest. Measure to check.

## Money

**Estimate, compare and calculate different measures, including money in pounds and pence**

Take a collection of six coins. Find all the different amounts of money that can be made with the coins. Use the money to buy a pencil for 35p. Which coins could you use and what would be the change?

# Measurement Mat

## Greater Depth Year 4

### Problems

**Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days**

A film lasts 110 minutes. Including 25 minutes of adverts and trailers, how long is the showing in hours and minutes?

It is Thursday. How many days until the Tuesday in nearly three weeks?

### Shape

**Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres**

**Find the area of rectilinear shapes by counting squares**

Draw, on squared paper, a rectilinear shape with a perimeter of 18cm and an area of 16cm<sup>2</sup>.

Explain how to calculate the perimeter of a rectangle.

## Time

**Convert between different units of measure (for example, hour to minute)**

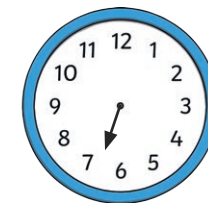
How many minutes in two hours?

**Estimate, compare and calculate different measures**

Estimate how much time is spent each week watching television or reading. Keep a record for a week to compare.

**Read, write and convert time between analogue and digital 12- and 24-hour clocks**

This analogue clock has lost its minute hand. Estimate what is the time.



Show on each clock and write the time 2:45 in the afternoon in words and numerals in as many ways as possible.

