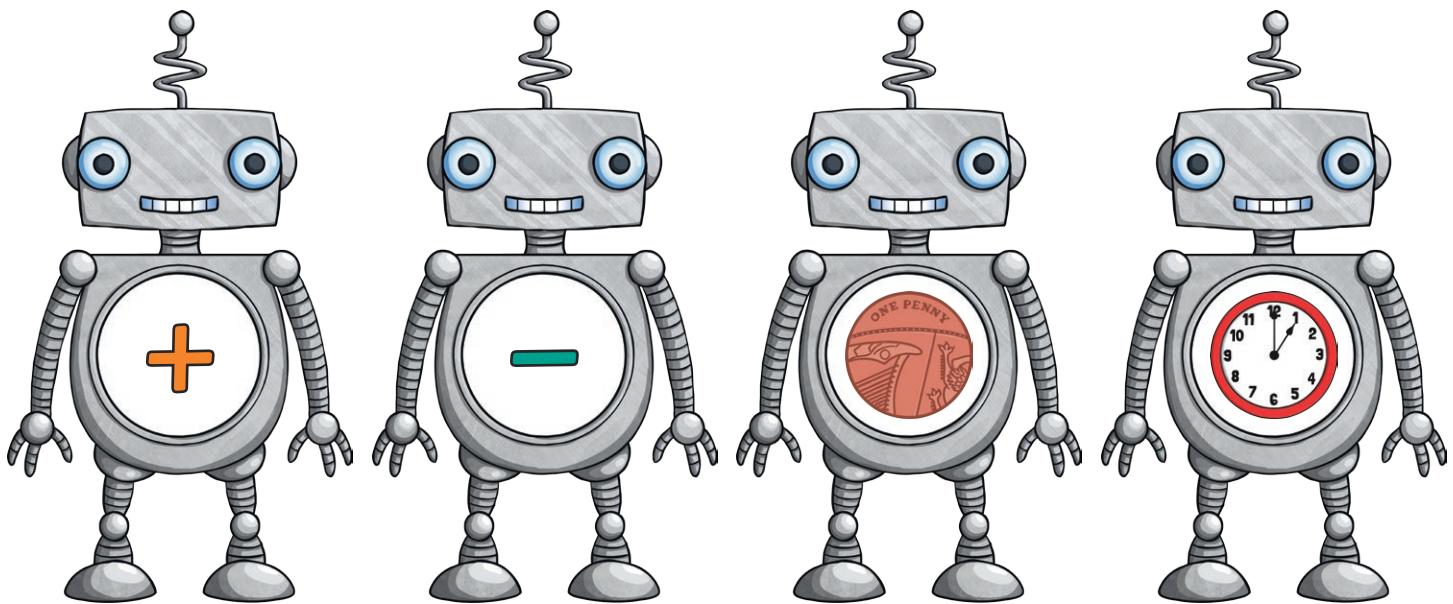


# Home Learning Year 2 Maths Workbook Pack – Measures



# Year 2 Programme of Study - Measures

Statutory Requirements	Worksheet	Page Number	Notes
choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ( $^{\circ}\text{C}$ ); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels	Reading Scales	3-6	
compare and order lengths, mass, volume/capacity and record the results using $>$ , $<$ and $=$	Compare and Order Lengths and Mass	7-10	
recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	Using Pounds and Pence	11-12	
find different combinations of coins that equal the same amounts of money	Different Coin Combination Challenge	13	
solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	Money World Problems	14	
compare and sequence intervals of time	Compare and Sequence Intervals of time	15-16	
tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times	Telling the Time - Quarter Past, Quarter to and Half Past	17	
	Telling the Time in Blocks of 5 Minutes	18	
know the number of minutes in an hour and the number of hours in a day	Seconds, Minutes and Hours	19-20	

# Reading Scales



Carl

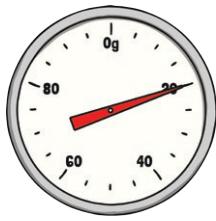


Aneesa



Amelia

1. Carl, Aneesa and Amelia are racing at the fair. How fast is each of them driving?



Carl

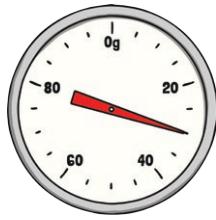
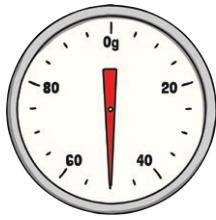


Aneesa



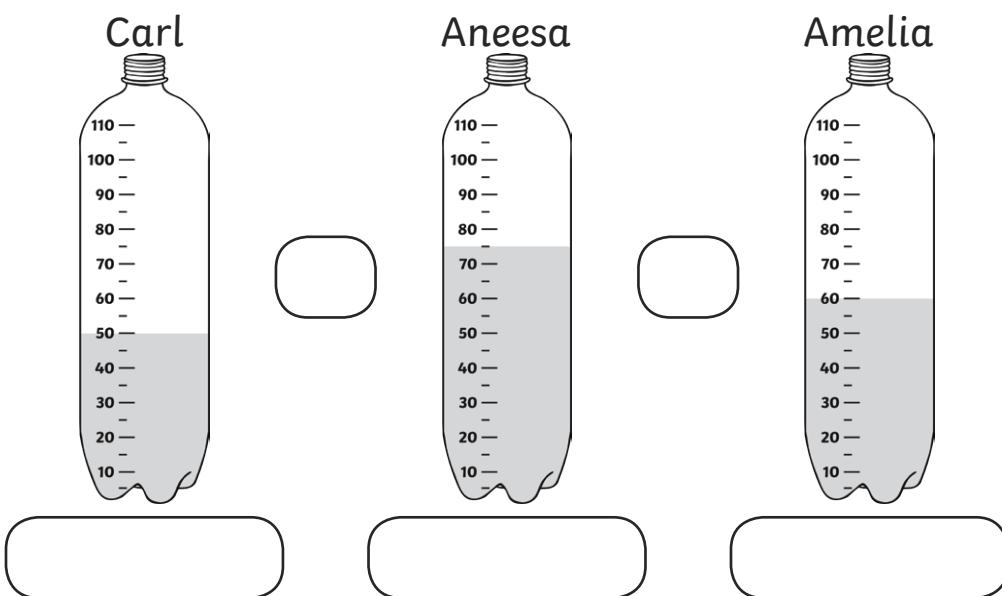
Amelia

2. Carl is driving faster than Aneesa. Amelia is driving more slowly than Aneesa. Can you match them to their speedometers?

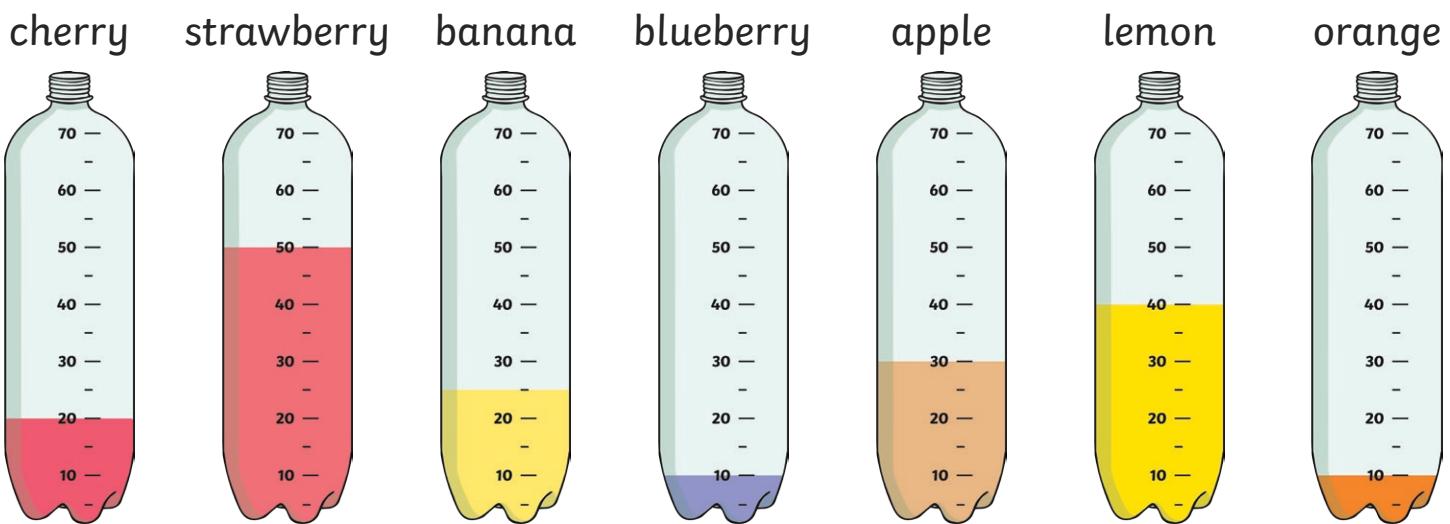


## Reading Scales

3. Carl, Aneesa and Amelia stop for a drink. This is how much they each have left in their bottles. Put < > or = between the bottles and write under each bottle how much it contains.



4. Carl, Aneesa and Amelia each have some bottles with different flavours:



They each mix together 3 different flavours to make their own fruit drink. Carl isn't keen on fruit so he makes the smallest possible drink.

Aneesa loves fruit so she makes the largest possible drink.

Amelia makes a drink that is exactly 70ml.

Which fruits did they choose?

Carl \_\_\_\_\_

Aneesa \_\_\_\_\_

Amelia \_\_\_\_\_

# Reading Scales

Find a different way to make Amelia's drink.

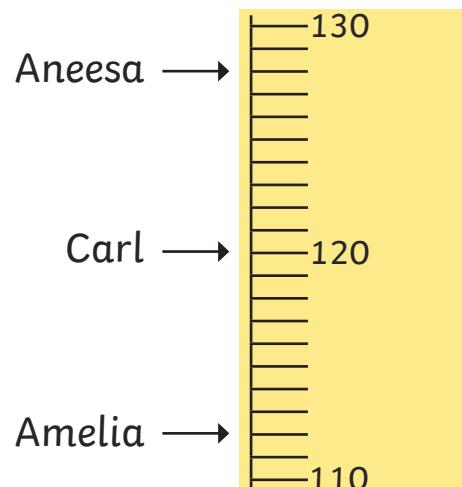
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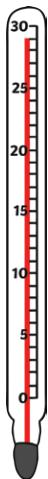
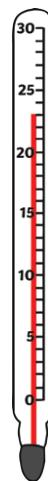
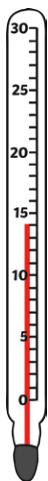
5. There is a minimum height of 120cm for the 'Mummy Attack' ride. Who is tall enough to go on the ride?
- 

How much taller does Amelia need to be to go on the ride?

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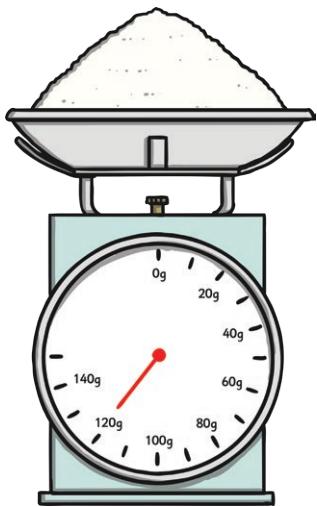


6. The children place a thermometer in 3 different rooms in the house. Write the temperatures in the rooms.

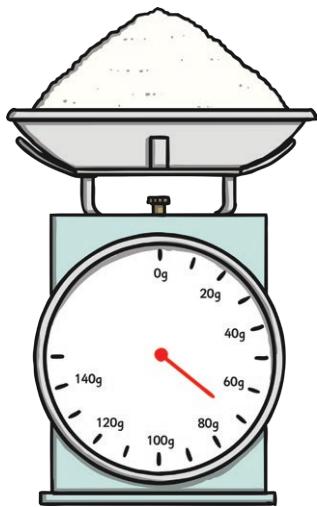


## Reading Scales

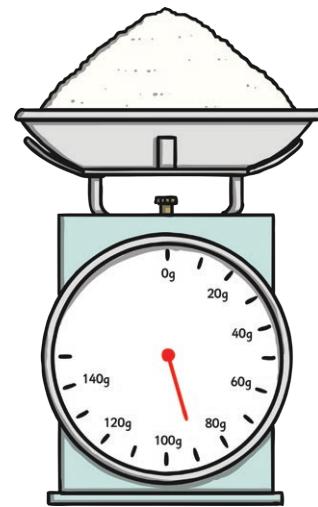
7. They decide to do some baking. What questions could you ask your friend about what you see on the scales?



Carl



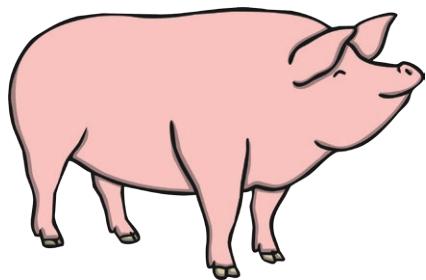
Aneesa



Amelia

# Compare and Order Lengths and Mass

## Pig



Length: 200cm

Height: 110 cm

Weight: 350 kg

Top Speed: 18 km/h

## Lion



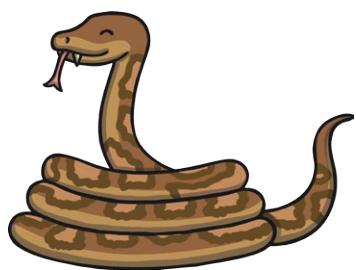
Length: 250cm

Height: 120cm

Weight: 190kg

Top Speed: 80 km/h

## Anaconda



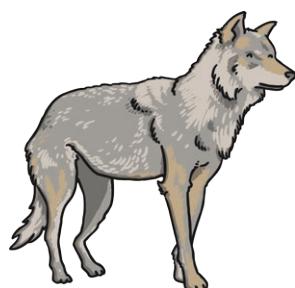
Length: 880 cm

Height: 15cm

Weight: 227kg

Top Speed: 32km/h

## Wolf



Length: 160cm

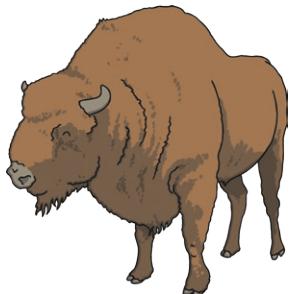
Height: 85cm

Weight: 80kg

Top Speed: 60 km/h

## Compare and Order Lengths and Mass

### Bison



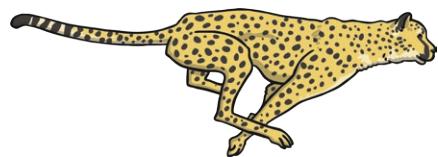
Length: 280cm

Height: 195cm

Weight: 620kg

Top Speed: 56km/h

### Cheetah



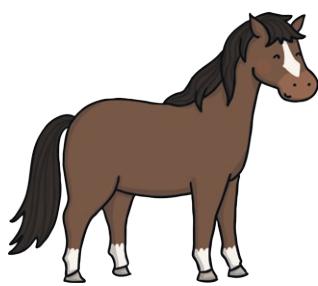
Length: 150cm

Height: 94cm

Weight: 72kg

Top Speed: 120km/h

### Horse



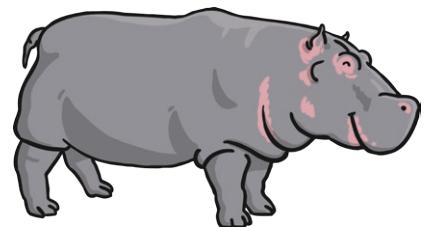
Length: 240cm

Height: 180cm

Weight: 1000kg

Top Speed: 88km/h

### Hippo



Length: 520cm

Height: 150cm

Weight: 1800kg

Top Speed: 30 km/h

# Compare and Order Lengths and Mass

- ## 1. Which is the longest animal?

---

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2. Which is the tallest animal?

3. Which is the shortest animal?

4. Which is the heaviest animal?

5. Which is the lightest animal?

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6. Which are the three fastest animals?

7. Which animal has the lowest number in 2 separate categories?

8. Can you put the animals in order from the shortest to the tallest?

A vertical scale diagram consisting of a vertical line with seven horizontal tick marks. An upward-pointing arrow at the top right is labeled "Shortest". A downward-pointing arrow at the bottom right is labeled "Tallest".

## Compare and Order Lengths and Mass

9. Use < or > to show which card would win.

Top Speed			Height		
Lion 80km/h	>	Anaconda 32km/h	Bison		Wolf
Weight			Length		
Hippo		Lion	Wolf		Horse
Height			Top Speed		
Pig		Cheetah	Anaconda		Hippo

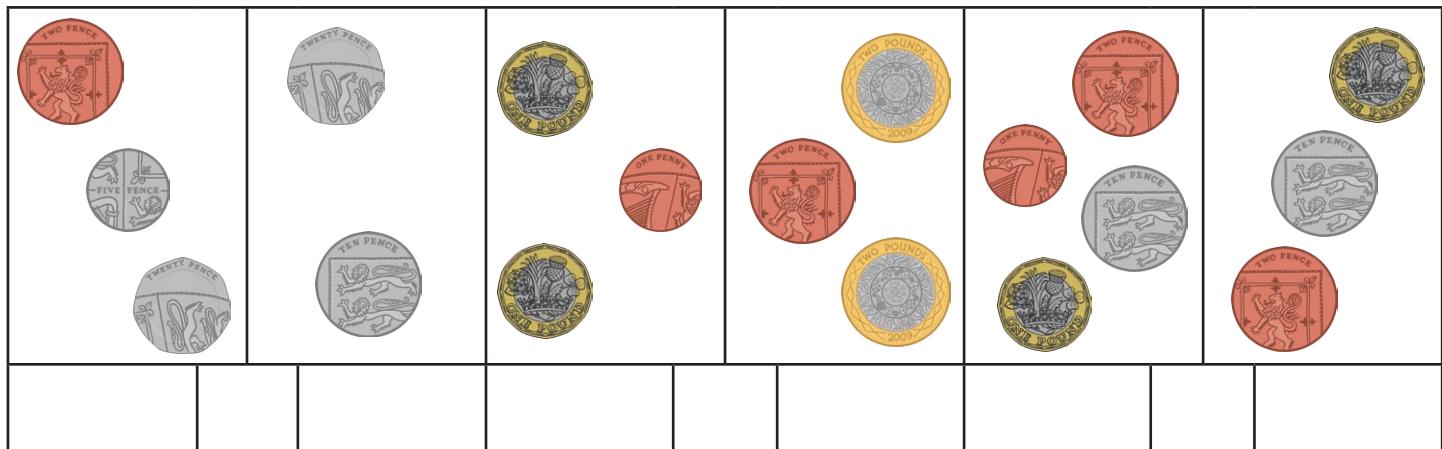
# Using Pounds and Pence

1. What do the coins in each box add up to? Use £ or p for each total.

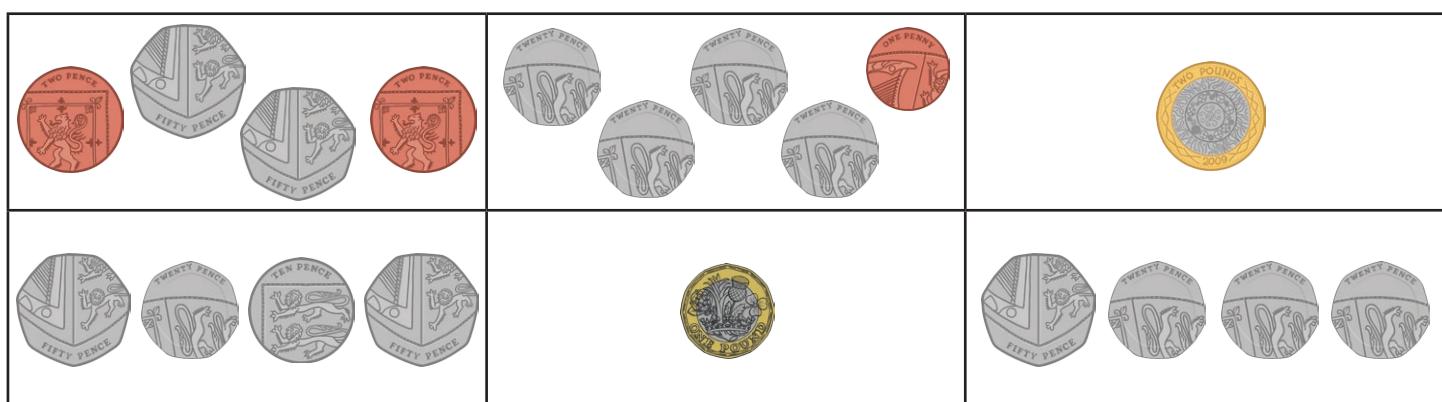
		
		

## Using Pounds and Pence

2. Total up the coins and use greater than (>) and less than (<) to compare the amounts.



3. Circle all the boxes that contain more than £1.



# Different Coin Combination Challenge

Look at the coins below. How many different ways can you use them to make a total of 25p? One has been done for you.



10p, 10p, 5p	25p	Free One!
		Good Start!
		Keep Going!
		Doing Well!
		You've Found Lots!
		Good!
		Very Good!
		Excellent!
		Superb!
		Amazing!
		Professional!
		World Record!

# Money World Problems

LO: I can solve word problems involving money.

- Janet buys a pen for 34p and a rubber for 22p. How much does she spend?

- Alex gives his friend 35p. He is left with 20p. How much did he have to begin with?

- Hamed buys some apples for 76p. He pays with a £1 coin. How much change does he receive?

- Tomas is given 45p by a friend. He had 38p already. How much does he have now?

- Alma has four 20p coins. She buys a bottle of water for 58p. How much money will she have left?

- Nura has four coins. She has 36p. What coins must she have?

- Ian spends 23p on a packet of crisps and 41p on a drink. He gets 36p change. He gives the shopkeeper 2 coins. What were the coins?

# Compare and Sequence Intervals of Time

1. Choose one of these phrases to fill each gap with:

- takes longer than
- takes less time than
- takes about the same time as



Brushing your Teeth		reading a book.
Watching a film		watching a TV programme.
Knitting a jumper		making a paper aeroplane.
Making a cup of tea		eating an apple.
Saying hello		saying goodbye.
Writing a post card		writing a story.
Reading a long book		reading a short book.

## Compare and Sequence Intervals of Time

2. Can you put these events in order from the one that would take the least time up to the one that would take the most time?

travelling to the Moon	flying to America	walking to the local shop	watching a film	sailing to America by boat

← →

less time

more time

3. Can you use the signs <, > and = to make these statements correct?

1 hour		1 minute
100 minutes		1 hour
1 minute		1 second
1 week		24 hours
20 minutes		1 hour
60 seconds		1 hour

4. Can you put these events in order from the shortest amount of time to the longest amount of time?

1 day	8 minutes	10 seconds	20 hours	59 minutes

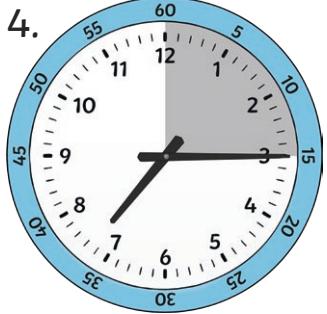
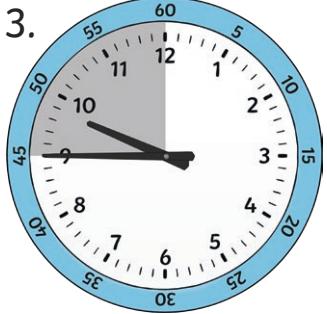
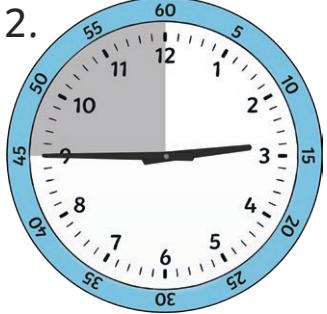
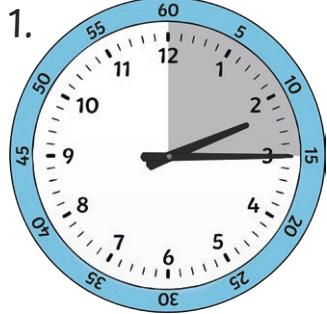
← →

less time

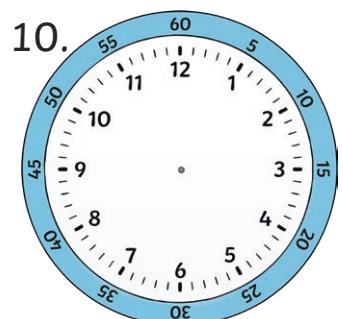
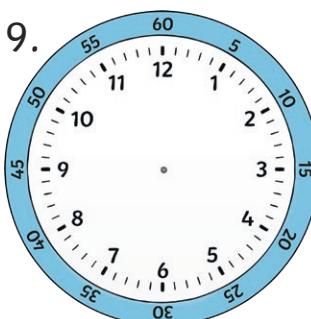
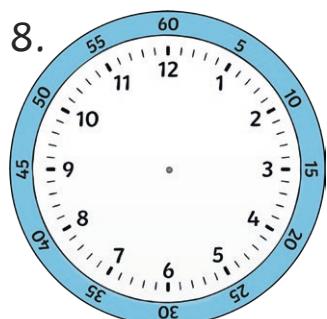
more time

# Telling the Time - Quarter Past, Quarter to and Half Past

Are these clocks showing quarter to or quarter past?



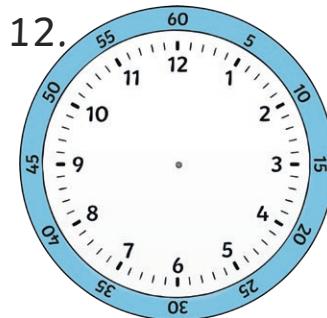
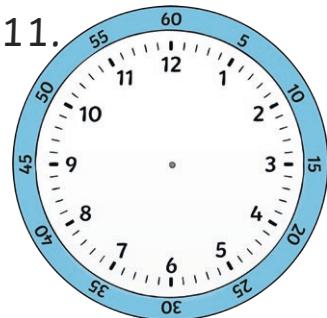
- 
5. If the big hand starts at 12, it takes \_\_\_\_\_ minutes to get to quarter past.  
6. If the big hand starts at 12, it takes \_\_\_\_\_ minutes to get to quarter to.  
7. If the big hand starts at 12, it takes \_\_\_\_\_ minutes to get to half past.



Quarter to 4

Half past 3

Quarter past 10

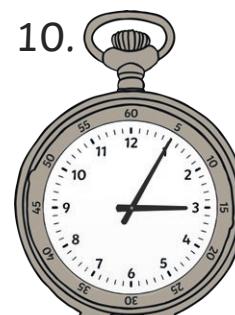
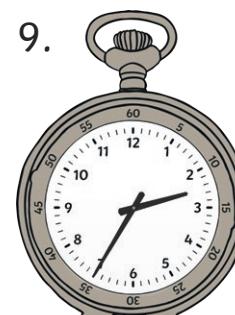
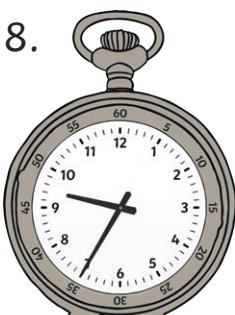
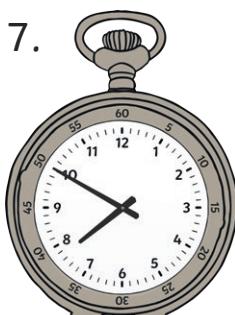
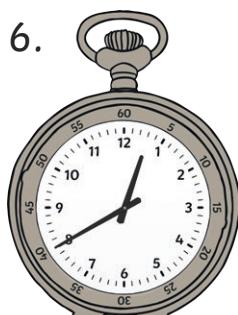
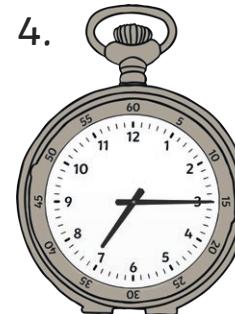
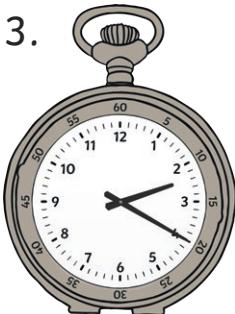
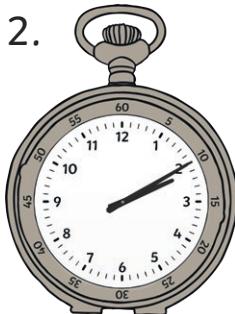
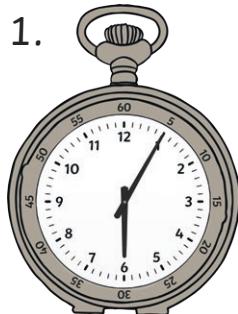


Quarter to 12

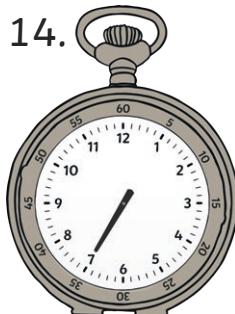
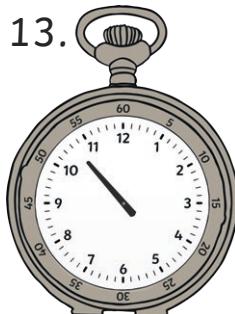
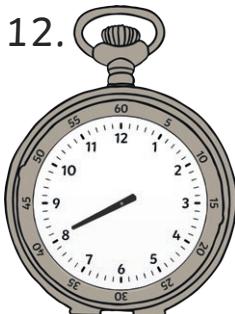
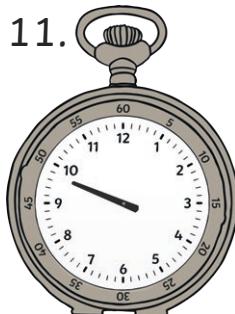
Quarter past 5

# Telling the Time in Blocks of 5 Minutes

Professor Pike Lafayette Braddock Esquire has a new pocket watch, but he needs help to know what time it is.



The hands of the professor's pocket watch have fallen off! Draw them on so he knows what time it is.

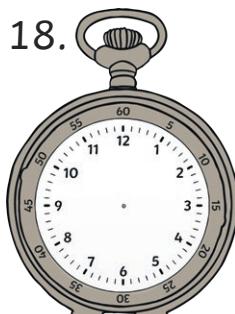
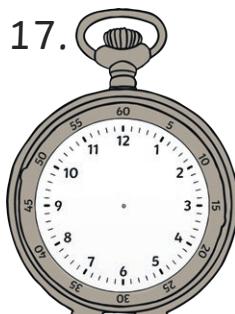
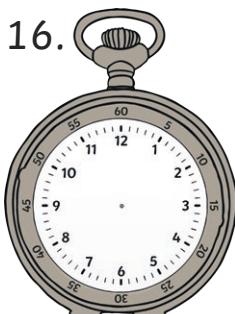
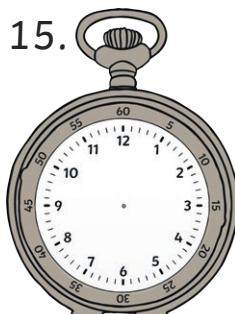


5 minutes to 10

10 minutes past 8

20 minutes to 11

5 minutes past 7



25 minutes past 4

25 minutes to 9

15 minutes  
(quarter to) to 1

15 minutes past  
(quarter past) 9

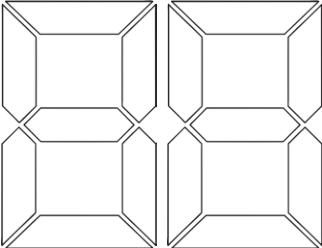
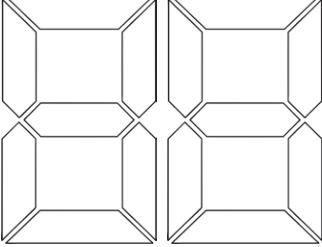
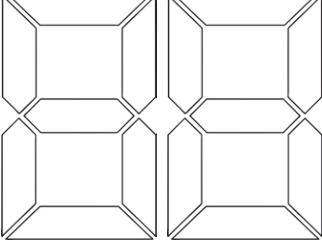
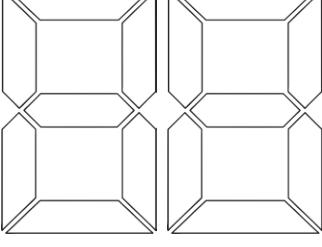
# Seconds, Hours or Minutes

60 seconds = 1 minute

60 minutes = 1 hour

24 hours = 1 day

Look at each activity shown below and shade out parts of the number to make the figure you want. Add seconds, minutes, hours or days in the unit column to show you have a good understanding of units of time. The first one has been done for you.

Event	Possible Length	Units
Boiling a kettle		Minutes
Eating an apple		
Sleeping at night		
Watching one television programme		

# Seconds, Hours or Minutes

Bed time story		
Pouring a drink		
Watching a film		
Hours in a day		
Climbing the stairs		
Minutes in an hour		