

# Year 2 Maths Measurement

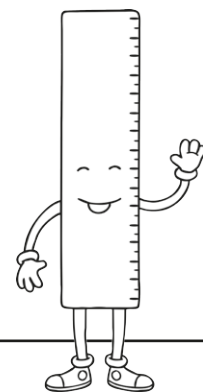
## Learning from Home Activity Booklet

### Year 2 Programme of Study - Measurement

| Statutory Requirements   | Activity Sheet            | Page Number | Notes |
|--|---------------------------|-------------|-------|
| Choose and use appropriate standard units to estimate and measure:<br>length/height in any direction (m/cm) to the nearest appropriate unit using rulers;                      | Measuring Up              | 2           |       |
| mass (kg/g) to the nearest appropriate unit using scales;  | Let's Bake a Cake         | 3 - 4       |       |
| temperature (°C) to the nearest appropriate unit using thermometers;   | Turn Up the Heat          | 5           |       |
| capacity (litres/ml) to the nearest appropriate unit using measuring vessels.  | Comparing Capacities      | 6           |       |
| Compare and order lengths, mass, volume/capacity and record the results using $>$ , $<$ and $=$ .  | Zoo Weighing              | 7           |       |
| Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. | Fill the Piggy Banks      | 8 - 9       |       |
| Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.  | Fruit Shopping            | 10 - 12     |       |
| Compare and sequence intervals of time.  | Time Out                  | 13          |       |
| 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.  | What's the Time, Mr Wolf? | 14 - 15     |       |
| Know the number of minutes in an hour and the number of hours in a day.  |                           |             |       |
| Answers  |                           | 16 - 25     |       |

# Measuring Up

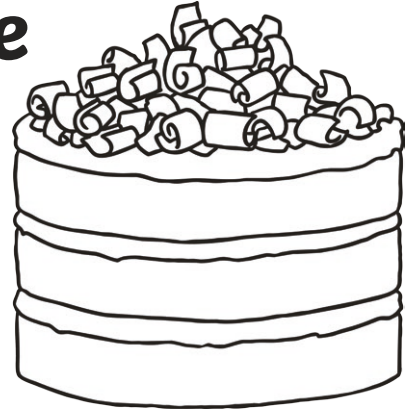
Find these objects around your home. Estimate how long they are in centimetres (cm). Now measure them using a centimetre ruler. How close were your estimates?



| Object      | My Estimate | Actual Measurement |
|-------------|-------------|--------------------|
| Pencil      |             |                    |
| Book        |             |                    |
| Phone       |             |                    |
| Shoe        |             |                    |
| Photo frame |             |                    |
| Toothbrush  |             |                    |
| Spoon       |             |                    |
| Cup         |             |                    |
| Hairbrush   |             |                    |

# Let's Bake a Cake

Find a recipe for your favourite cake or biscuits. Ask a grown-up to read the list of ingredients with you. Write the ingredients here. Remember to say how much you need of each. For example: 150g flour, 100ml milk.

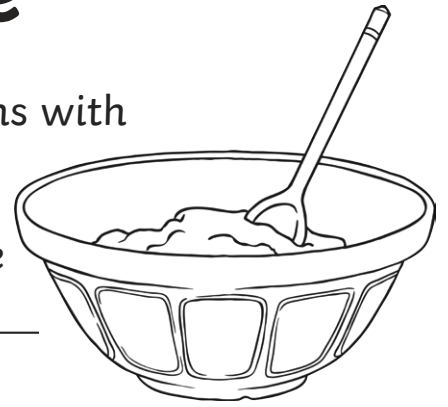


| <b>Ingredient:</b> | <b>How much I need:</b> |
|--------------------|-------------------------|
|                    |                         |

Now make your delicious cake!

# Let's Bake a Cake

While your cake is baking, think about these questions with a grown-up:



What did you use to measure the dry ingredients like flour and sugar? \_\_\_\_\_

What unit of measurement do we use?

\_\_\_\_\_

What else could we weigh using this measurement?

\_\_\_\_\_

What was the heaviest ingredient you used?

\_\_\_\_\_

What was the lightest ingredient?

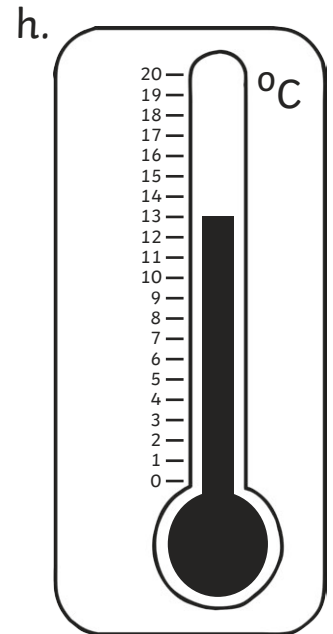
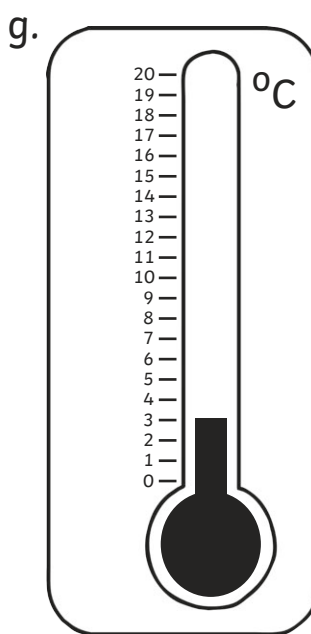
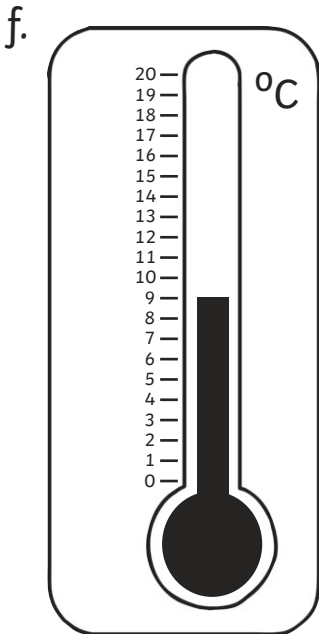
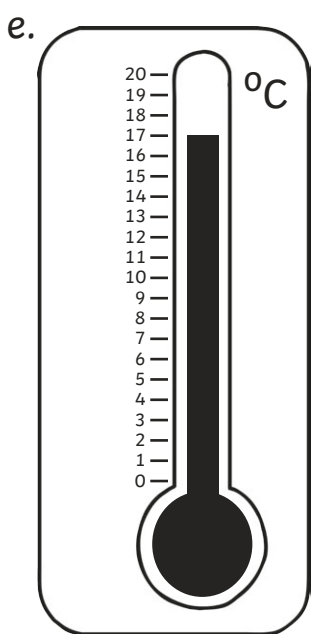
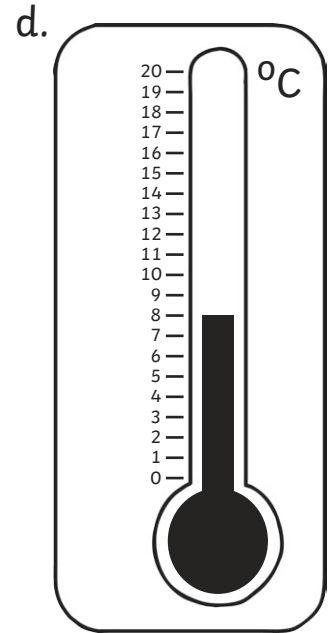
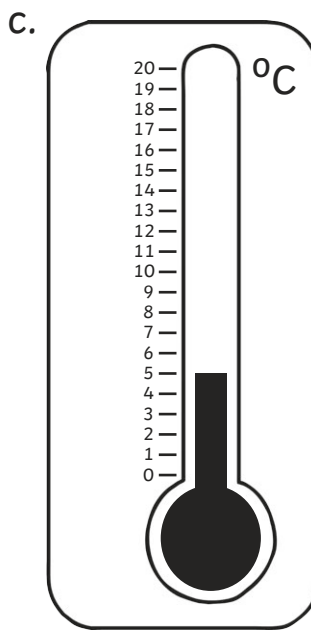
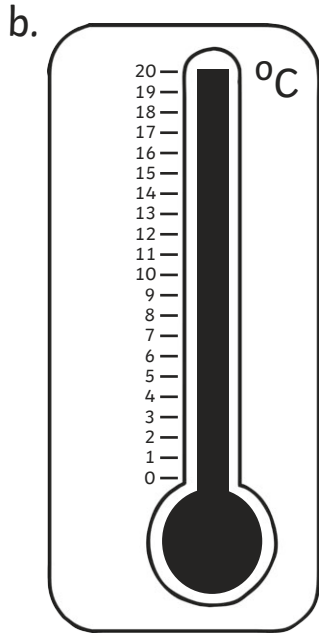
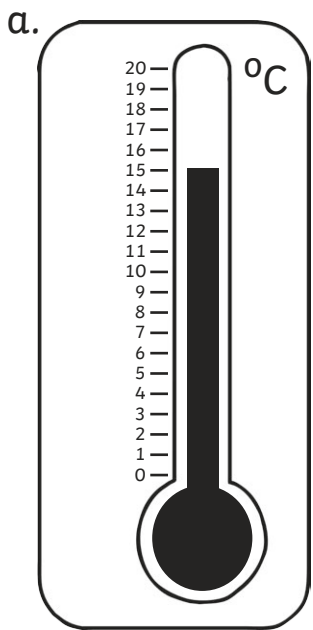
\_\_\_\_\_

Now try to work out how much of each ingredient you would use if you wanted to make two cakes or two lots of biscuits.

| Ingredient: | How much I need: |
|-------------|------------------|
|             |                  |

# Turn up the Heat

Write the temperature shown on each thermometer.



Which thermometer shows the hottest temperature? \_\_\_\_\_

Which shows the coldest temperature? \_\_\_\_\_

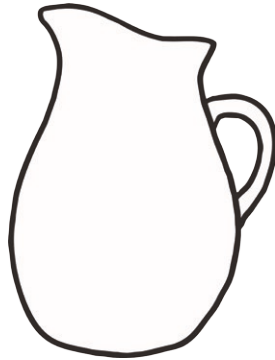
# Comparing Capacities

ml = millilitres

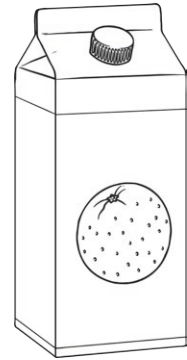
L = litres



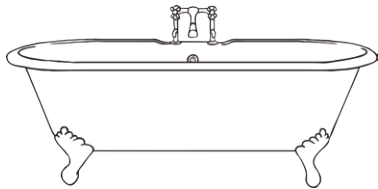
200ml



500ml



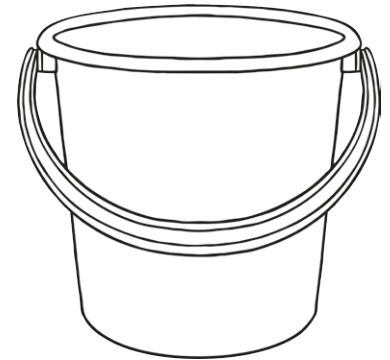
1L



100L



300ml



10L

Write the names of the objects in order from largest to smallest capacity.

largest



smallest

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

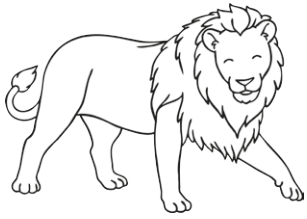
\_\_\_\_\_

\_\_\_\_\_

Challenge: Where on the line would you put a swimming pool? Where would you put an eggcup? Where would you put a cereal bowl?

# Zoo Weighing

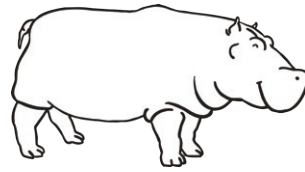
The vet has come to weigh the animals at the zoo.



205kg



240kg



500kg



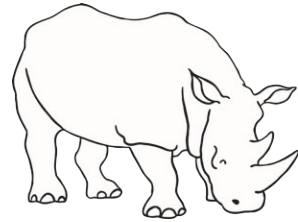
50kg



150kg



125kg



650kg

Fill in the correct sign (<, > or =) to make these number sentences correct:

lion  chimp

zebra  rhino

tiger  lion

hippo  rhino

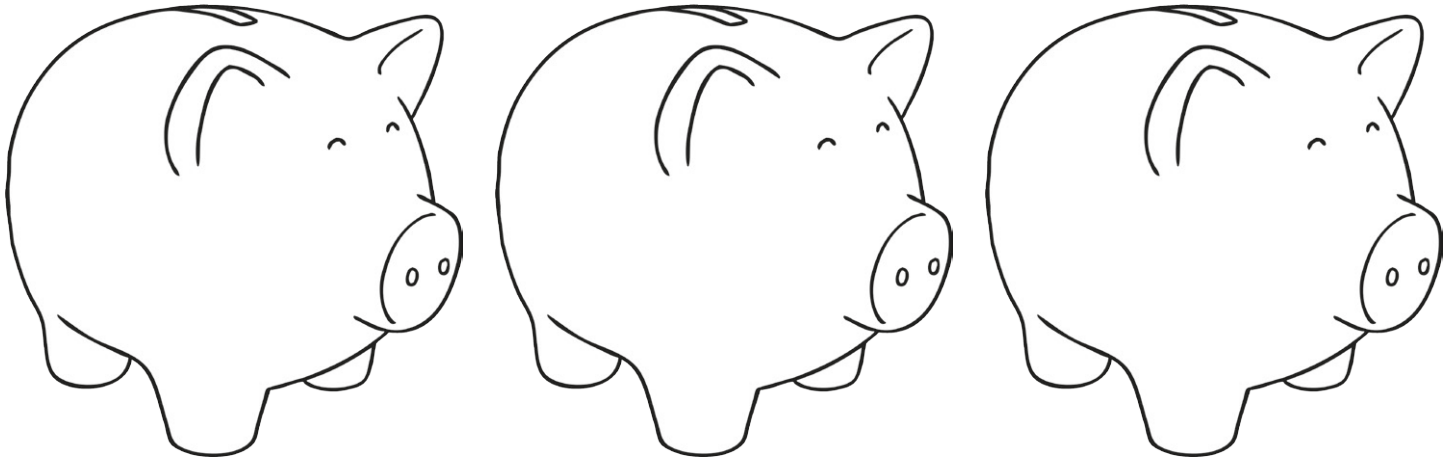
chimp + monkey  rhino

chimp + zebra  tiger

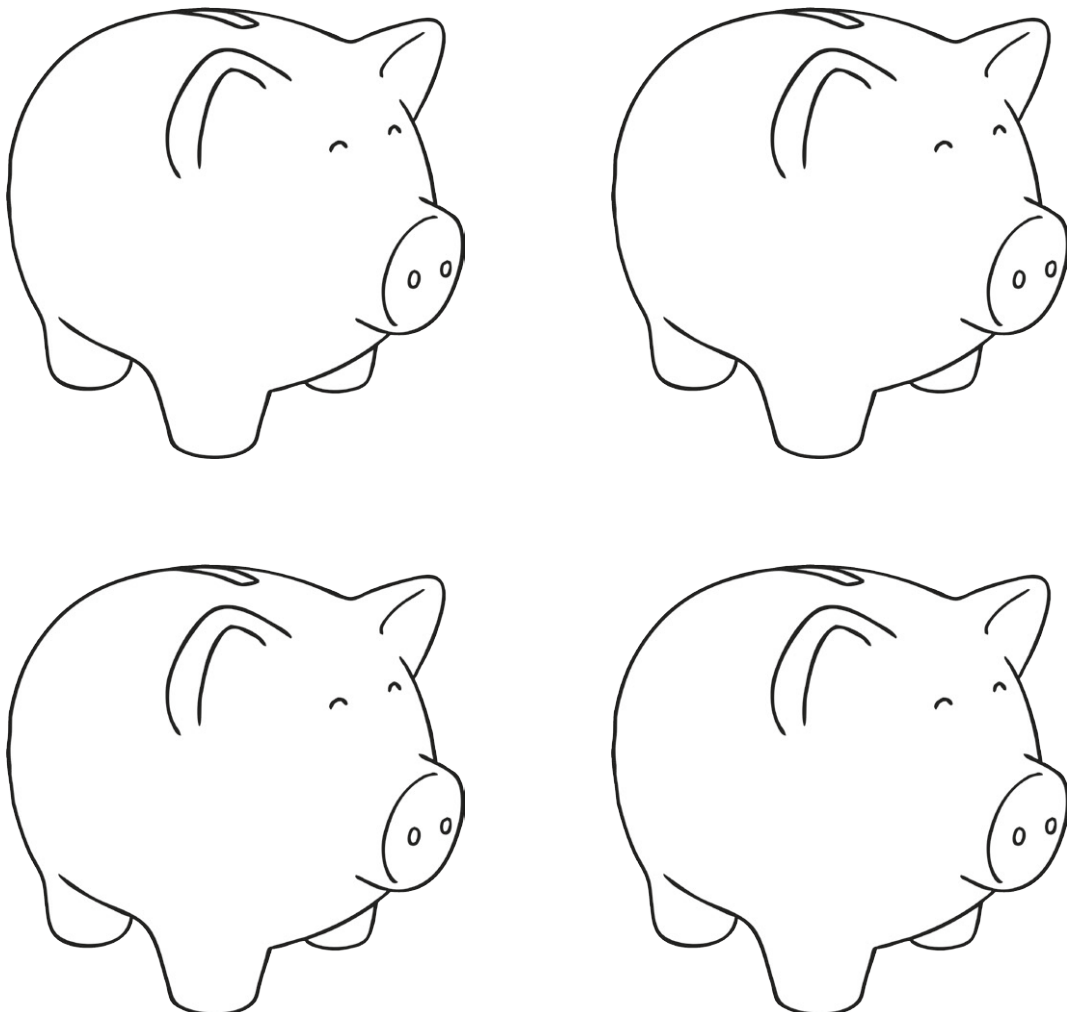
hippo + zebra  rhino

# Fill the Piggy Banks

Can you find 3 different ways to make 5p? Draw the coins in the piggy banks:



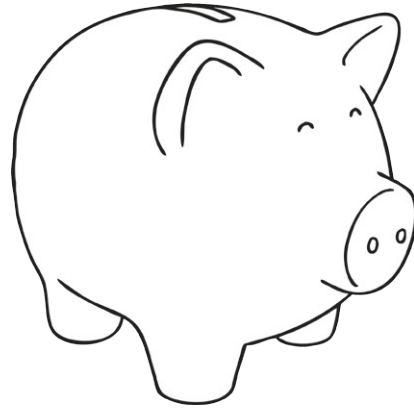
Can you find 4 different ways to make 10p? Draw the coins in the piggy banks:





# Fill the Piggy Banks

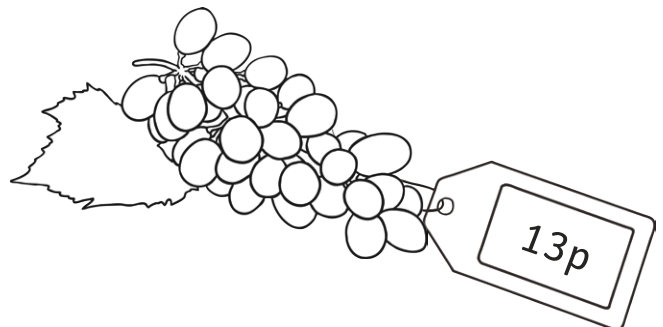
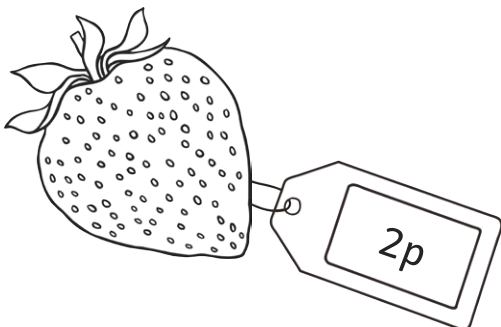
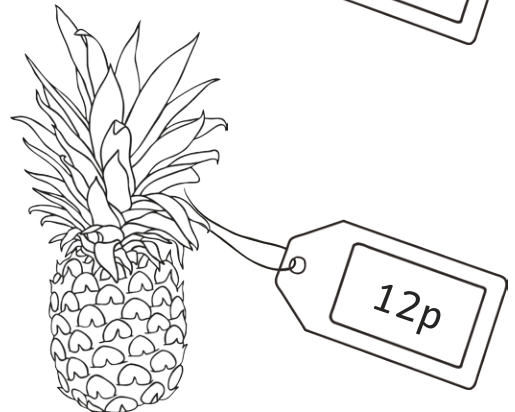
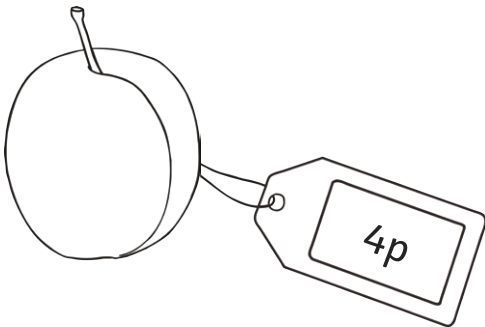
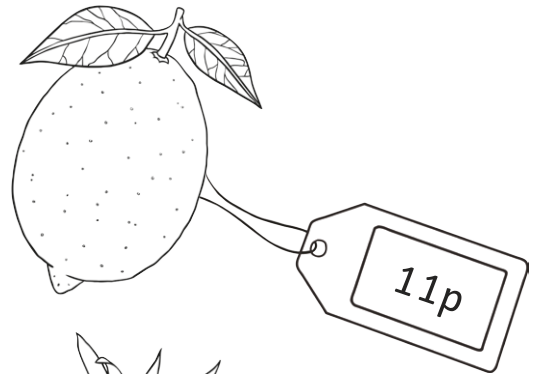
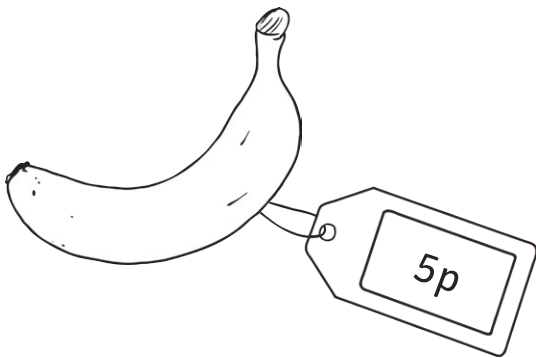
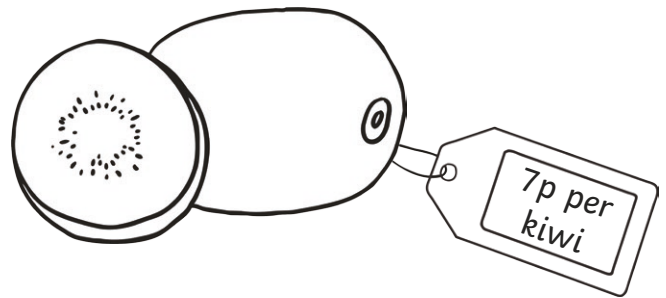
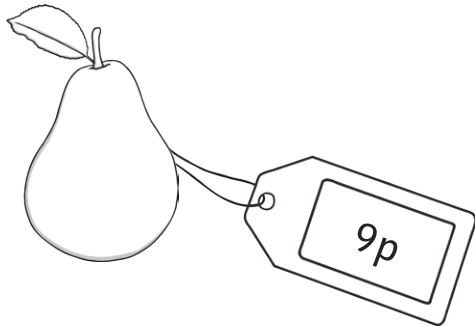
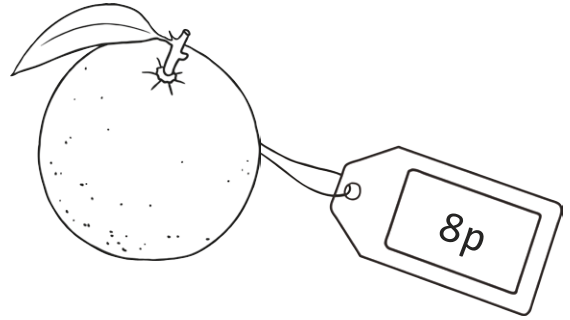
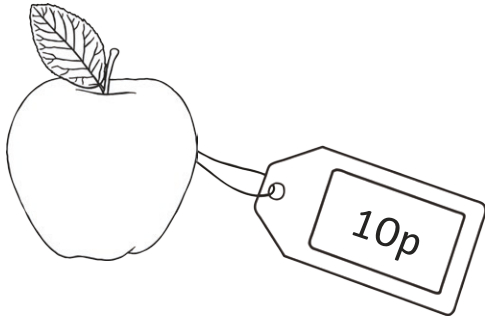
Can you find 4 different ways to make 20p? Draw the coins in the piggy banks:



Can you find 4 different ways to make 50p? Draw the coins in the piggy banks:



# Fruit Shopping



# Fruit Shopping

Look at the pictures of fruit on the previous page. Can you work out how much it would cost to buy these different fruits?

|                                       |  |
|---------------------------------------|--|
| an apple and<br>a banana              |  |
| a kiwi and<br>a strawberry            |  |
| two lemons                            |  |
| a strawberry and a<br>bunch of grapes |  |
| a pineapple<br>and a plum             |  |
| an apple, a banana<br>and a pear      |  |
| two lemons and a<br>banana            |  |

Challenge: Draw the smallest number of coins you could use to pay for each set of fruit.

# Fruit Shopping

Look at the pictures of fruit again. If you had a 20p piece, how much change would you get for each fruit?

|            |  |
|------------|--|
| apple      |  |
| pear       |  |
| banana     |  |
| pineapple  |  |
| plum       |  |
| lemon      |  |
| strawberry |  |

Challenge: Draw the smallest number of coins the shopkeeper would need to make your change.

# Time Out

Put these times in the correct order:

- half past 5 in the morning
- quarter past 3 in the morning
- 7 o'clock in the evening
- ten to 8 in the evening
- 3 o'clock in the afternoon
- half past 11 in the morning

---

---

---

---

---

---

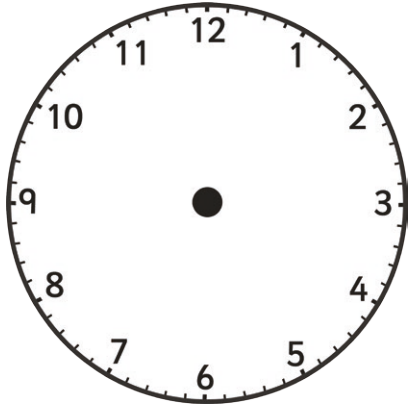
---

Write in the correct times:

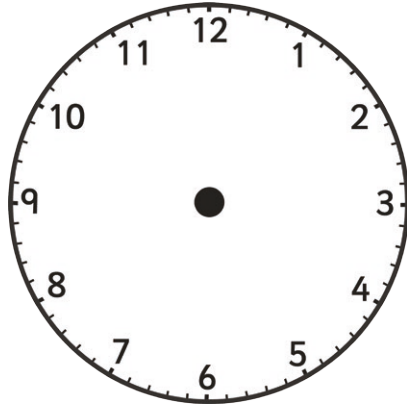
|                |                       |  |
|----------------|-----------------------|--|
| 6 o'clock      | time in 1 hour        |  |
| half past 3    | time in 1 hour        |  |
| quarter past 5 | time 1 hour ago       |  |
| half past 8    | time 1 hour ago       |  |
| 9 o'clock      | time in half an hour  |  |
| half past 7    | time half an hour ago |  |
| quarter past 2 | time in half an hour  |  |
| quarter to 4   | time half an hour ago |  |

# What's the Time, Mr Wolf?

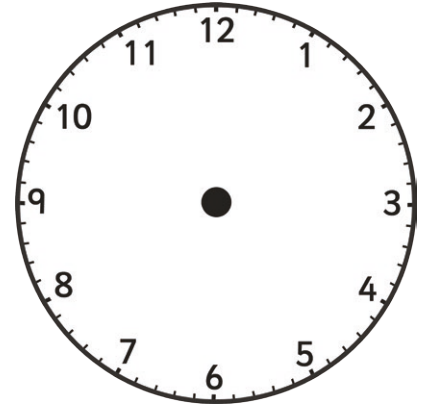
Mr Wolf has huffed and puffed so much that he has blown all the hands off his clocks! Can you draw the hands on the clocks to show the right times? Remember to make the minute hand longer than the hour hand.



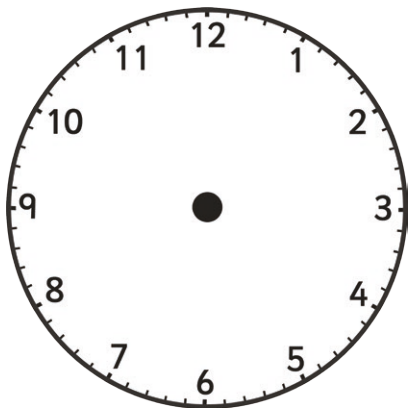
8 o'clock



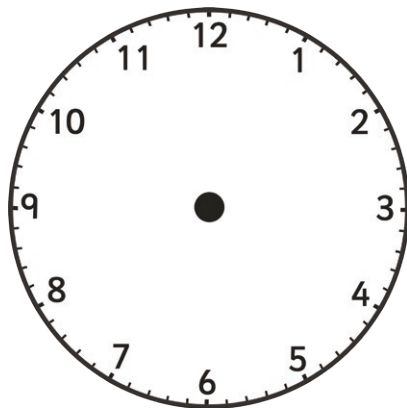
half past 11



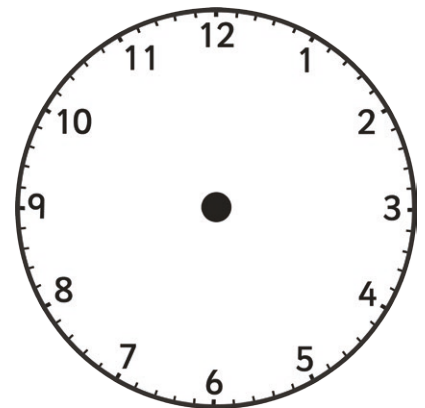
quarter past 5



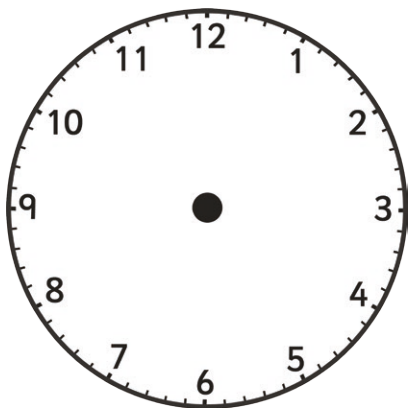
quarter to 7



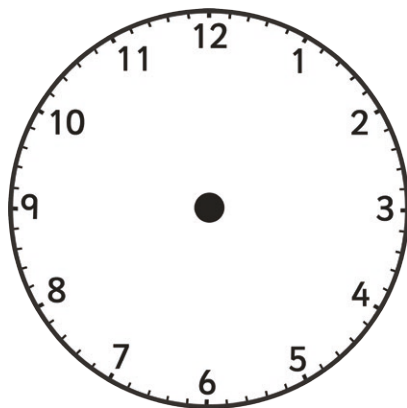
12 o'clock



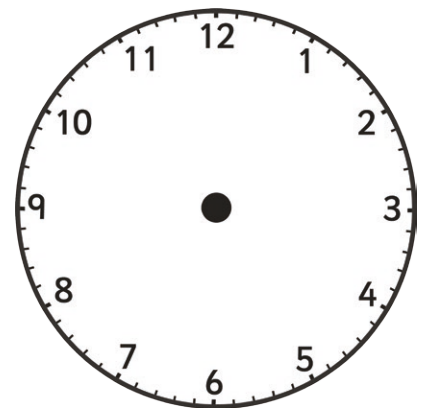
quarter to 3



quarter past 1



half past 6

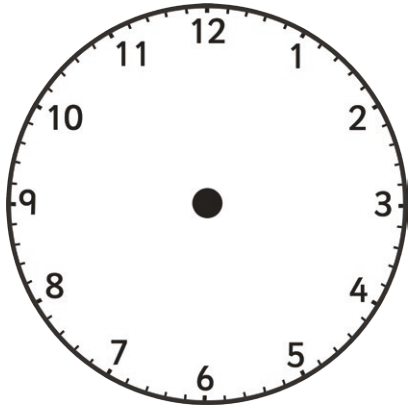


half past 4

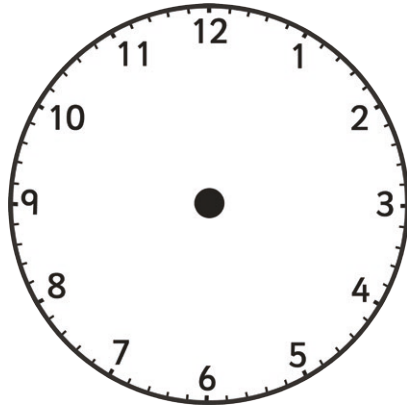
# What's the Time, Mr Wolf?

## Challenge:

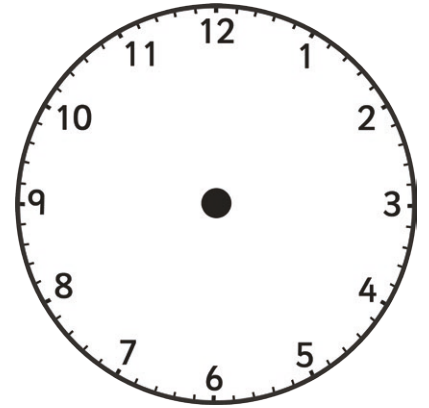
Can you draw the hands on the clocks to show these times?



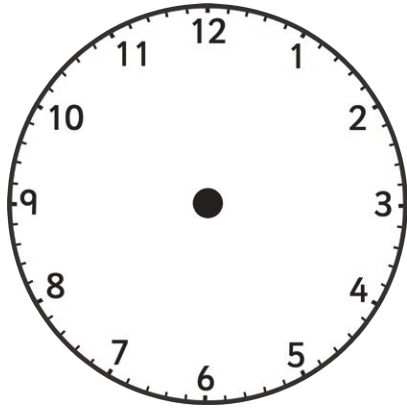
five to 5



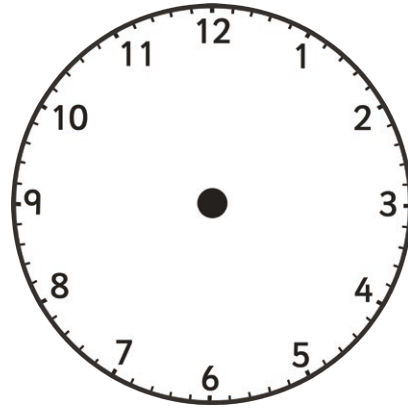
ten past 8



twenty past 10



twenty to 12



ten to 3

## Extra Challenge:

How many minutes are in one hour?

---

How many hours in one day?

---

Can you work out how many minutes are in half an hour?

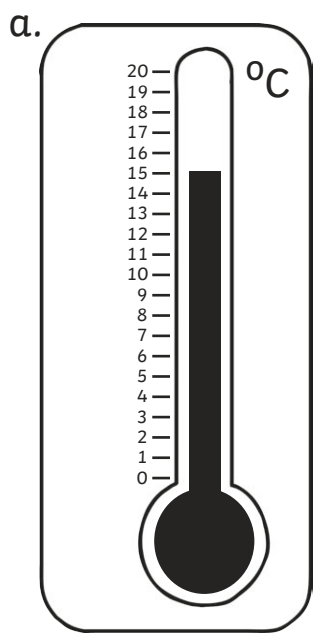
---

How many hours are in 2 days?

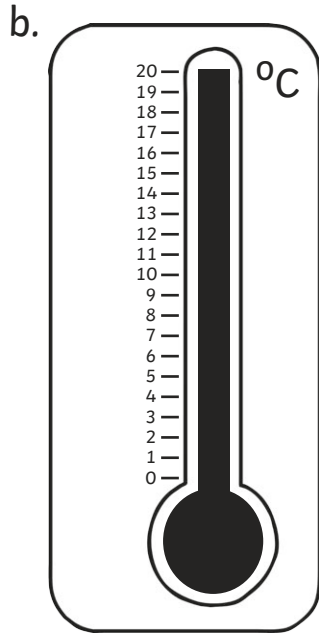
---

# Turn up the Heat Answers

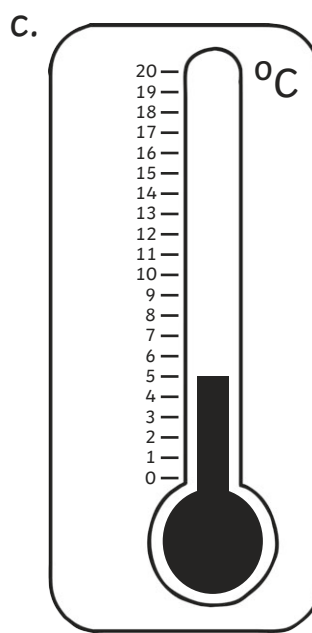
Write the temperature shown on each thermometer.



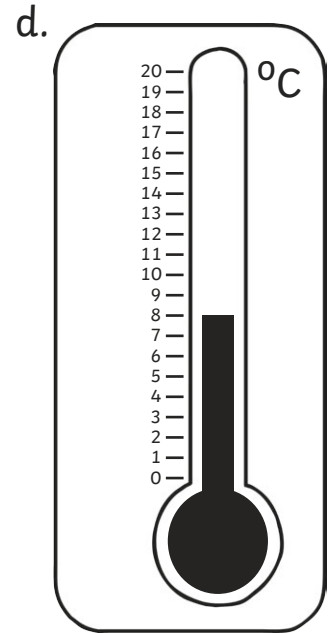
15°C



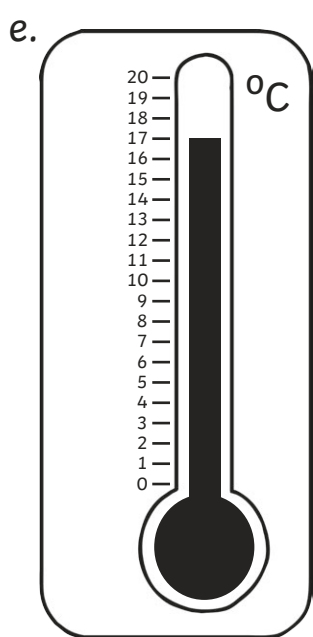
20°C



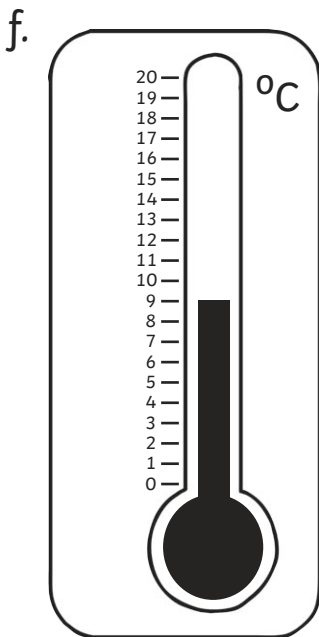
5°C



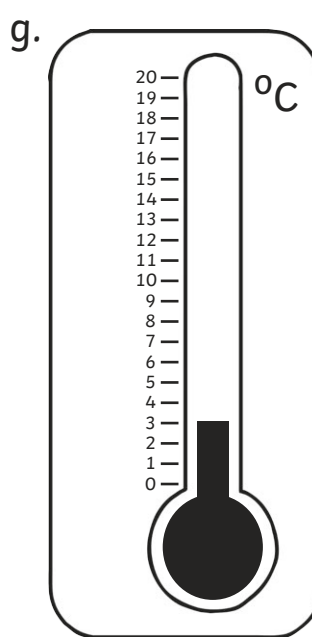
8°C



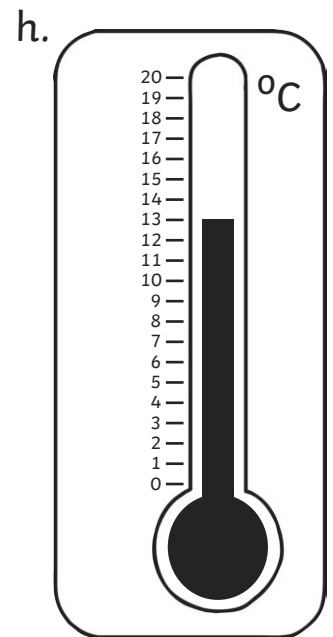
17°C



9°C



3°C



13°C

Which thermometer shows the hottest temperature? **b**

Which shows the coldest temperature? **g**



# Comparing Capacities Answers

ml = millilitres

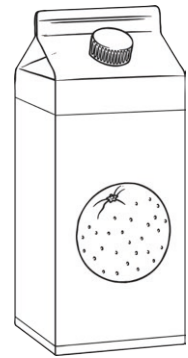
L = litres



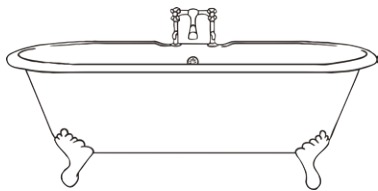
200ml



500ml



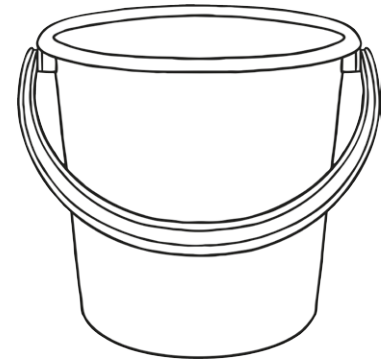
1L



100L



300ml



10L

Write the names of the objects in order from largest to smallest capacity.

largest



smallest

**bath**

**bucket**

**juice carton**

**jug**

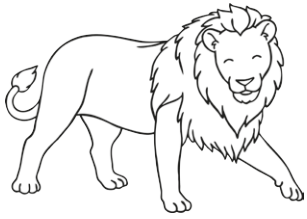
**drinks can**

**teacup**

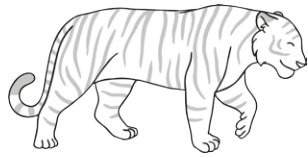
Challenge: Where on the line would you put a swimming pool? Where would you put an eggcup? Where would you put a cereal bowl?

# Zoo Weighing Answers

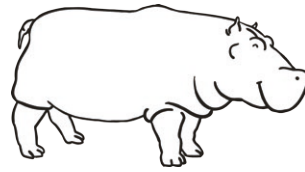
The vet has come to weigh the animals at the zoo.



205kg



240kg



500kg



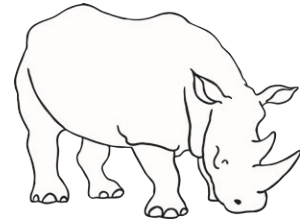
50kg



150kg



125kg



650kg

Fill in the correct sign (<, > or =) to make these number sentences correct:

lion > chimp

zebra < rhino

tiger > lion

hippo < rhino

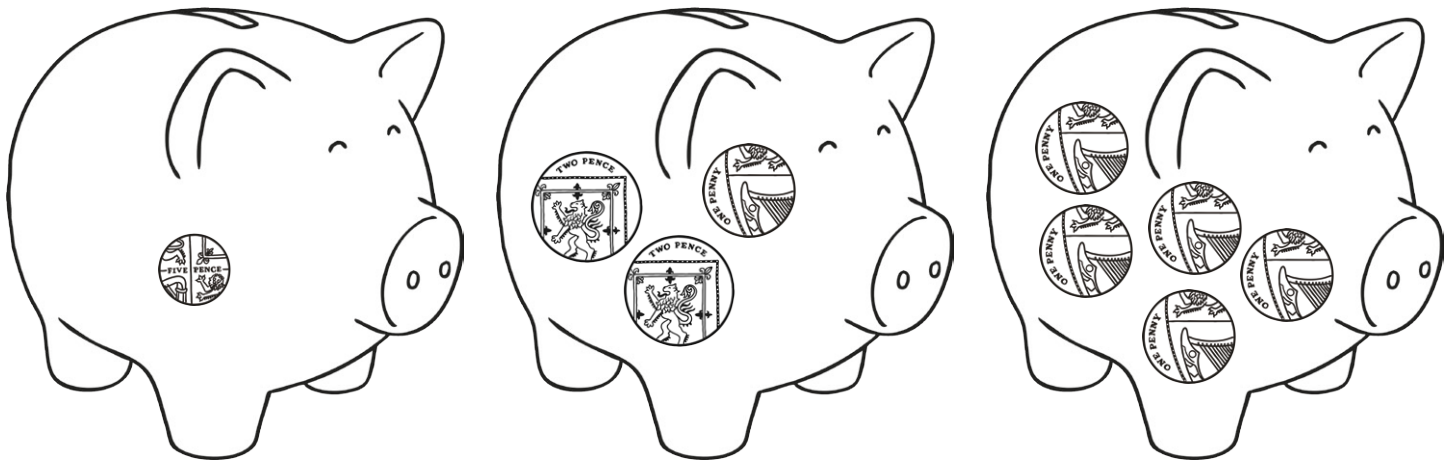
chimp + monkey < rhino

chimp + zebra > tiger

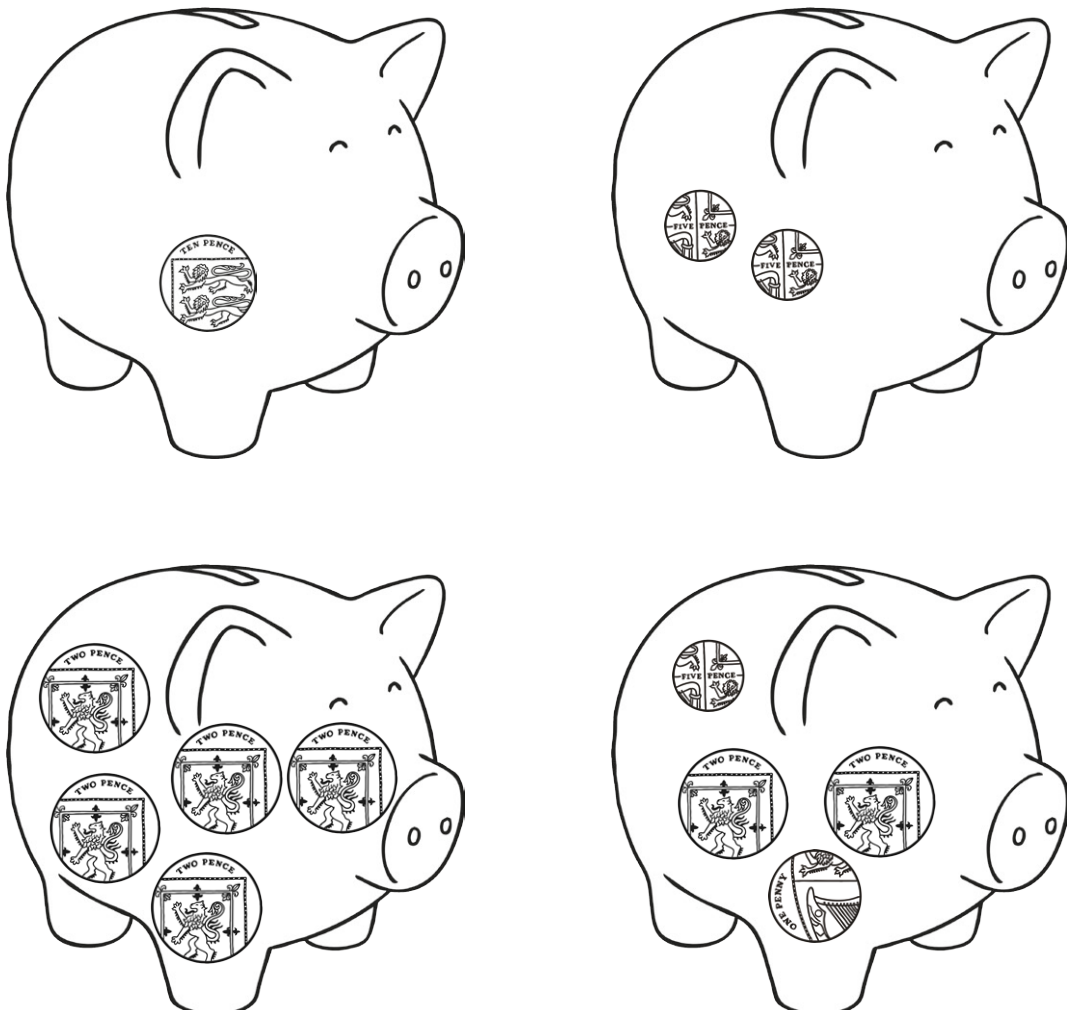
hippo + zebra = rhino

# Fill the Piggy Banks Answers

Can you find 3 different ways to make 5p? Draw the coins in the piggy banks:



Can you find 4 different ways to make 10p? Draw the coins in the piggy banks:

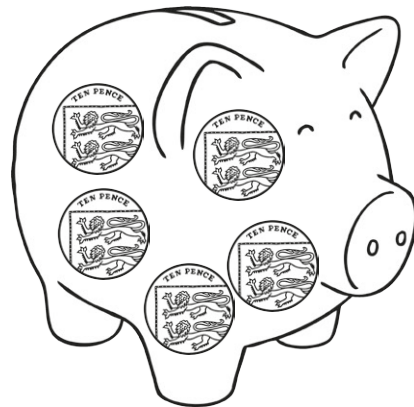
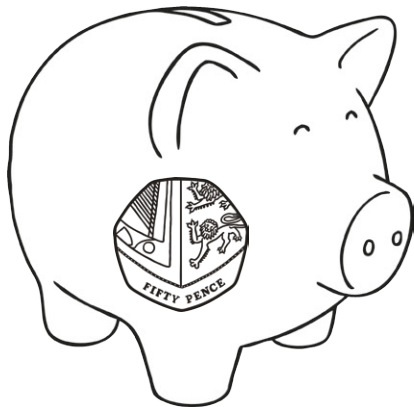


# Fill the Piggy Banks Answers

Can you find 4 different ways to make 20p? Draw the coins in the piggy banks:










Can you find 4 different ways to make 50p? Draw the coins in the piggy banks:



# Fruit Shopping Answers








Look at the pictures of fruit on the previous page. Can you work out how much it would cost to buy these different fruits?

|                                    |     |   |
|------------------------------------|-----|---|
| an apple and a banana              | 15p |    |
| a kiwi and a strawberry            | 9p  |     |
| two lemons                         | 22p |    |
| a strawberry and a bunch of grapes | 15p |  |
| a pineapple and a plum             | 16p |  |
| an apple, a banana and a pear      | 24p |  |
| two lemons and a banana            | 27p |  |

Challenge: Draw the smallest number of coins you could use to pay for each set of fruit.

# Fruit Shopping Answers

Look at the pictures of fruit again. If you had a 20p piece, how much change would you get for each fruit?

|            |            |   |
|------------|------------|---|
| apple      | <b>10p</b> |    |
| pear       | <b>11p</b> |    |
| banana     | <b>15p</b> |    |
| pineapple  | <b>8p</b>  |   |
| plum       | <b>16p</b> |  |
| lemon      | <b>9p</b>  |   |
| strawberry | <b>7p</b>  |   |

Challenge: Draw the smallest number of coins the shopkeeper would need to make your change.

# Time Out Answers

Put these times in the correct order:

- half past 5 in the morning
- quarter past 3 in the morning
- 7 o'clock in the evening
- ten to 8 in the evening
- 3 o'clock in the afternoon
- half past 11 in the morning

**quarter past 3 in the morning**

**half past five in the morning**

**half past 11 in the morning**

**3 o'clock in the afternoon**

**7 o'clock in the evening**

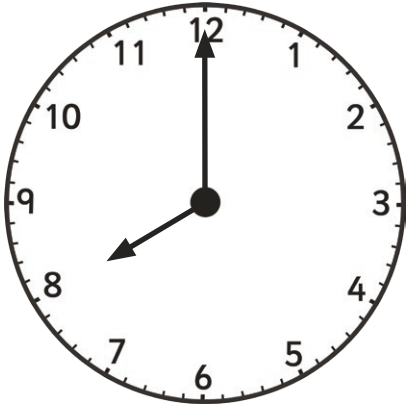
**ten to 8 in the evening**

Write in the correct times:

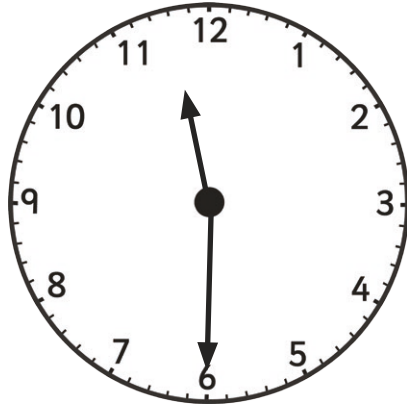
|                |                       |                       |
|----------------|-----------------------|-----------------------|
| 6 o'clock      | time in 1 hour        | <b>7 o'clock</b>      |
| half past 3    | time in 1 hour        | <b>half past 4</b>    |
| quarter past 5 | time 1 hour ago       | <b>quarter past 4</b> |
| half past 8    | time 1 hour ago       | <b>half past 7</b>    |
| 9 o'clock      | time in half an hour  | <b>half past 9</b>    |
| half past 7    | time half an hour ago | <b>7 o'clock</b>      |
| quarter past 2 | time in half an hour  | <b>quarter to 3</b>   |
| quarter to 4   | time half an hour ago | <b>quarter past 3</b> |

# What's the Time, Mr Wolf? Answers

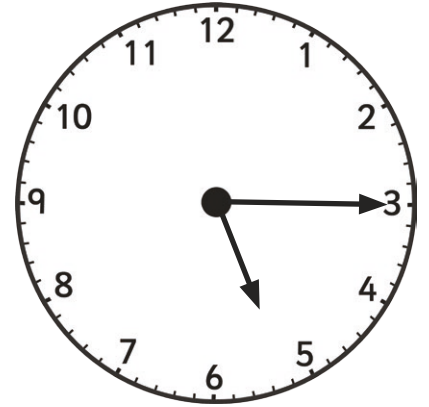
Mr Wolf has huffed and puffed so much that he has blown all the hands off his clocks! Can you draw the hands on the clocks to show the right times? Remember to make the minute hand longer than the hour hand.



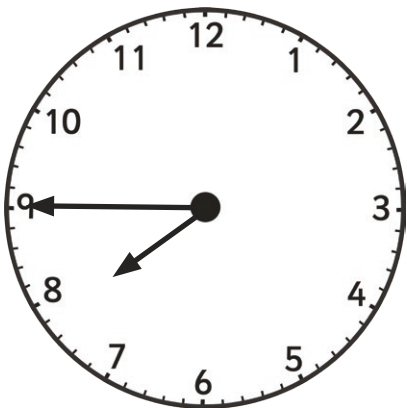
8 o'clock



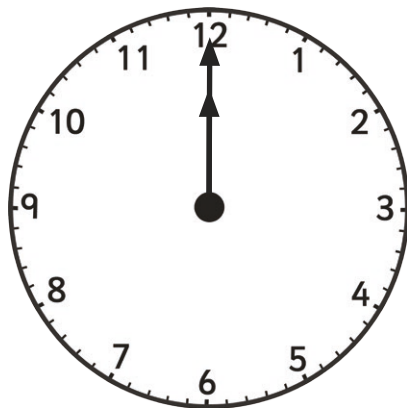
half past 11



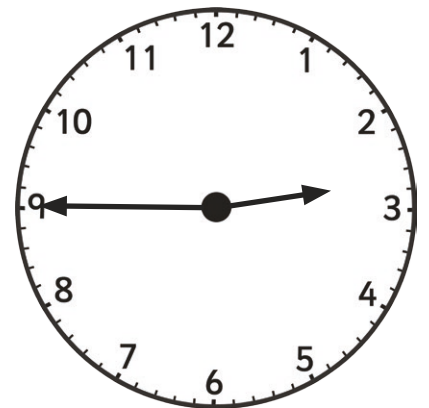
quarter past 5



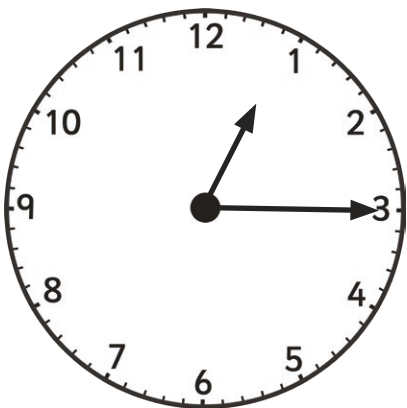
quarter to 7



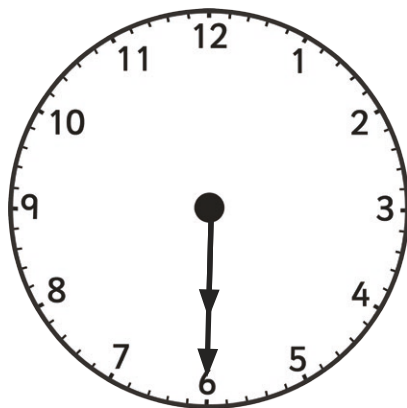
12 o'clock



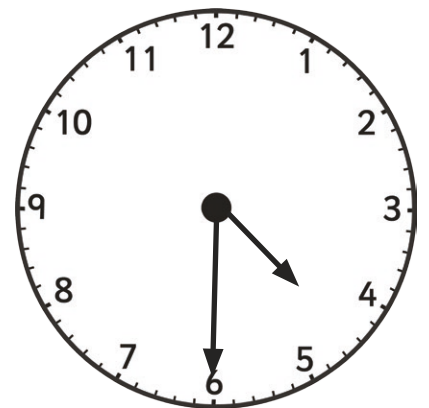
quarter to 3



quarter past 1



half past 6



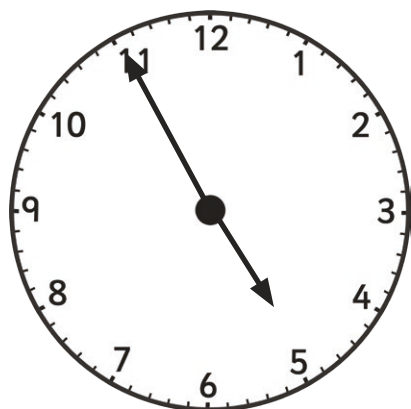
half past 4



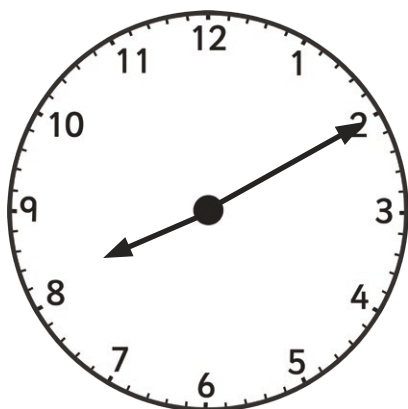
# What's the Time, Mr Wolf? Answers

## Challenge:

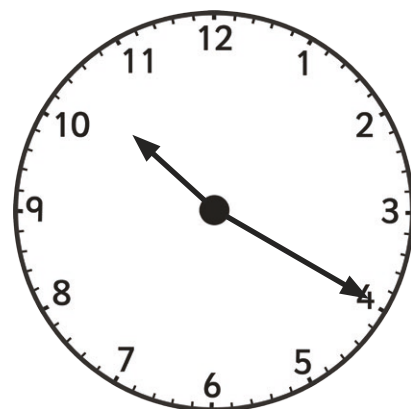
Can you draw the hands on the clocks to show these times?



five to 5



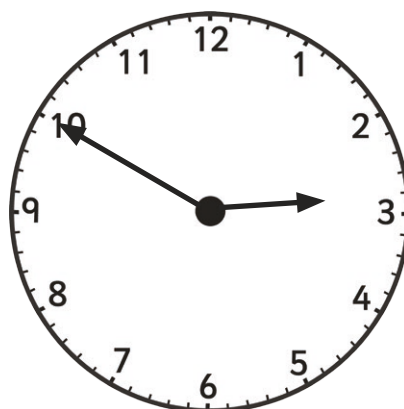
ten past 8



twenty past 10



twenty to 12



ten to 3

## Extra Challenge:

How many minutes are in one hour?

**60 minutes**

How many hours in one day?

**24 hours**

Can you work out how many minutes are in half an hour?

**30 minutes (half of 60)**

How many hours are in 2 days?

**48 hours (double 24)**