

Name:



## Maths Assessment Year 4 Term 3: Measurement

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1. Convert between different units of measure [for example, kilometre to metre; hour to minute].
2. Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
3. Estimate, compare and calculate different measures, including money in pounds and pence.
4. Read, write and convert time between analogue and digital 12- and 24-hour clocks.
5. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.

Name:

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## Maths Assessment Year 4 Term 3: Measurement

1. Convert between different units of measure [for example, kilometre to metre; hour to minute].

Complete the statements below:

a)  $1\frac{3}{4}$  hours =  minutes

d)  $6\frac{1}{2}$  minutes =  seconds

b) 1250m =  km

e)  cm = 350mm

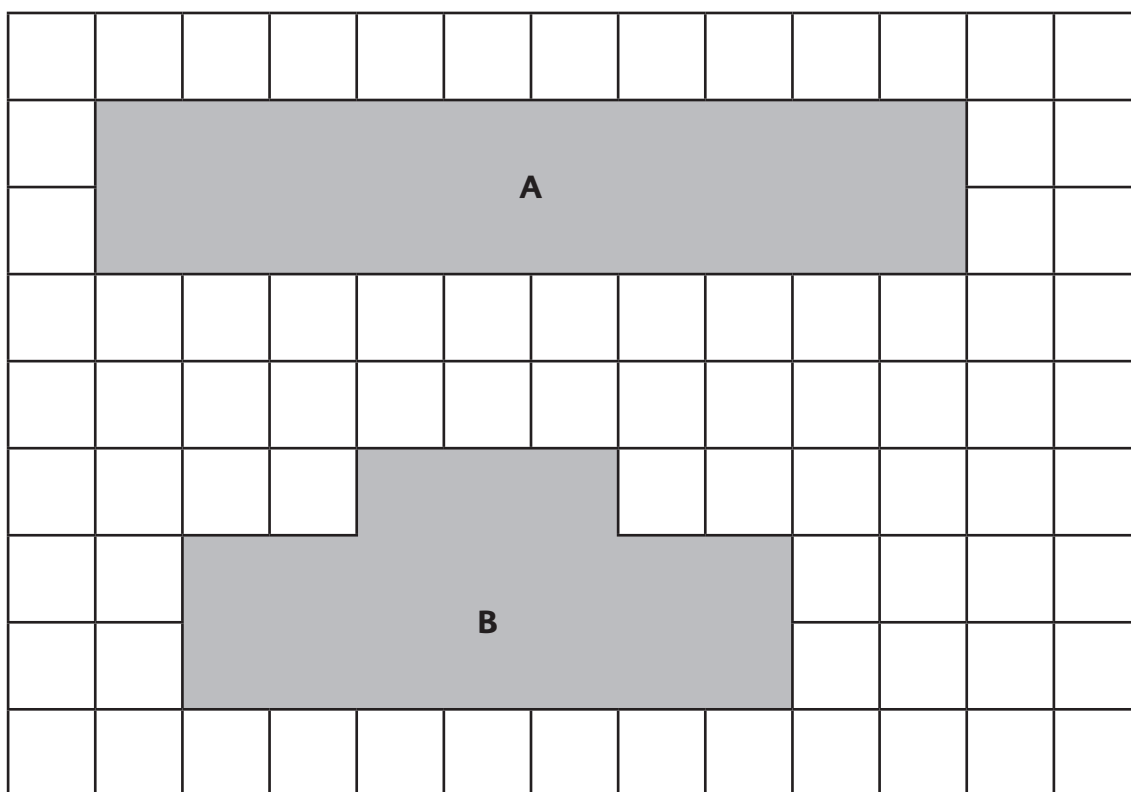
c)  kg = 4300g

f) 1.6 litres =  ml

6 marks

2. Measure and calculate the perimeter of a rectilinear figure and find the area of rectilinear shapes by counting squares.

Each square on the grid represents  $1\text{cm}^2$ .



- a) What is the difference between the perimeter of Shape **A** and Shape **B**?  cm

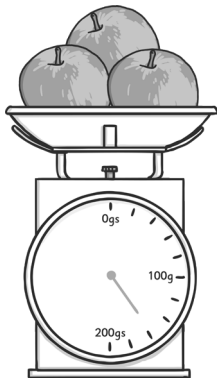
- b) What is the difference between the area of Shape **A** and Shape **B**?   $\text{cm}^2$

4 marks

Total for this page

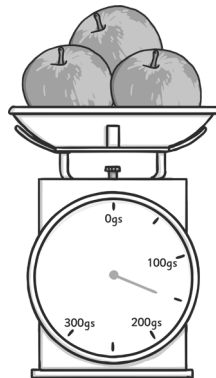
3. Estimate, compare and calculate different measures, including money in pounds and pence.

- a) The weights of two different bags of apples are shown here. Put the bags in order of weight by writing A, or B in the boxes below, starting with the smaller.



**A**

smaller



**B**

larger

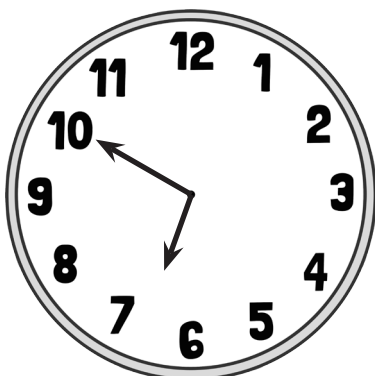
- b) Here is a pile of coins. Estimate the amount of money.



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

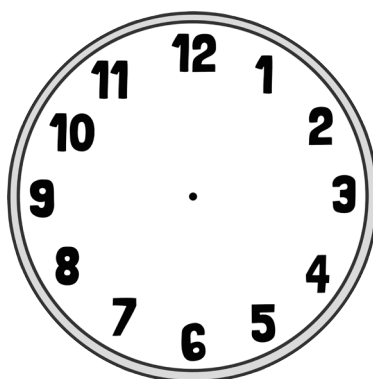
The time shown on this **analogue clock** is in the **evening**.

- a) Write the time as it would appear on a 24 hour digital clock.



The time shown on the 12 hour digital clock is in the morning.

b) Show 06:10 on the analogue clock.



1 mark

5. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.

a) Complete the table below, using 24 hour times.

Here is a timetable for coaches from Sheffield:

Destination	Departure time	Journey time	Arrival time
Manchester	11:40	75 minutes	12:55
Leeds	13:45	55 minutes	
London	10:30		13:40
Birmingham		135 minutes	17:25

3 marks

b) The world record for 800m is 1 minute 41 seconds (to the nearest second). How many seconds is that?

1 mark

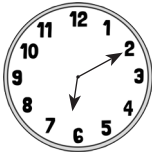
c) Sajid is 1 year 9 months older than his sister who is 4 years and 5 months old. How old is Sajid in years and months?

1 mark

d) How many days in November?

1 mark

Total for this page

question	answer	marks	notes																				
<b>1. Convert between different units of measurement.</b>																							
a	105 minutes	1																					
b	1.25km or $1\frac{1}{4}$ km	1																					
c	4.3kg	1																					
d	390 seconds	1																					
e	35cm	1																					
f	1600ml	1																					
<b>2. Measure and calculate the perimeter of a rectilinear figure and find the area of rectilinear shapes by counting squares.</b>																							
a	4cm	2	A= 24cm, B= 20cm. 1 mark for correctly calculating one perimeter.																				
b	3cm <sup>2</sup>	2	A= 20 cm <sup>2</sup> , B= 17 cm <sup>2</sup> . 1 mark for correctly calculating one area.																				
<b>3. Estimate, compare and calculate different measures, including money in pounds and pence.</b>																							
a	B, A	1																					
b	1 mark for answers between £3 and £4.	1																					
<b>4. Read, write and convert time between analogue and digital 12- and 24-hour clocks.</b>																							
a	18:50	1																					
b		1	The hour hand should be just after the 6. the minute hand should be in the 2.																				
<b>5. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.</b>																							
a	<table border="1"> <thead> <tr> <th>Destination</th><th>Departure time</th><th>Journey time</th><th>Arrival time</th></tr> </thead> <tbody> <tr> <td>Manchester</td><td>11:40</td><td>75 minutes</td><td>12:55</td></tr> <tr> <td>Leeds</td><td>13:45</td><td>55 minutes</td><td><b>14:40</b></td></tr> <tr> <td>London</td><td>10:30</td><td><b>190 minutes</b></td><td>13:40</td></tr> <tr> <td>Birmingham</td><td><b>15:10</b></td><td>135 minutes</td><td>17:25</td></tr> </tbody> </table>	Destination	Departure time	Journey time	Arrival time	Manchester	11:40	75 minutes	12:55	Leeds	13:45	55 minutes	<b>14:40</b>	London	10:30	<b>190 minutes</b>	13:40	Birmingham	<b>15:10</b>	135 minutes	17:25	3	1 mark for each answer.  Allow 3 hours 10 minutes for 190 minutes.  24 hour format can be 1440 or 14:40.
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b	101 seconds	1																					
c	6 years and 2 months	1	Only accept answer written as years and months.																				
d	30 days	1																					
		Total 20																					