

Name:



Maths Assessment Year 4: Measurement

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.

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Date:

Maths Assessment Year 4: Measurement

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

Complete the statements below:

a) $2\frac{1}{2}$ hours = minutes

d) $3\frac{1}{2}$ minutes = seconds

b) 1500m = km

e) cm = 125mm

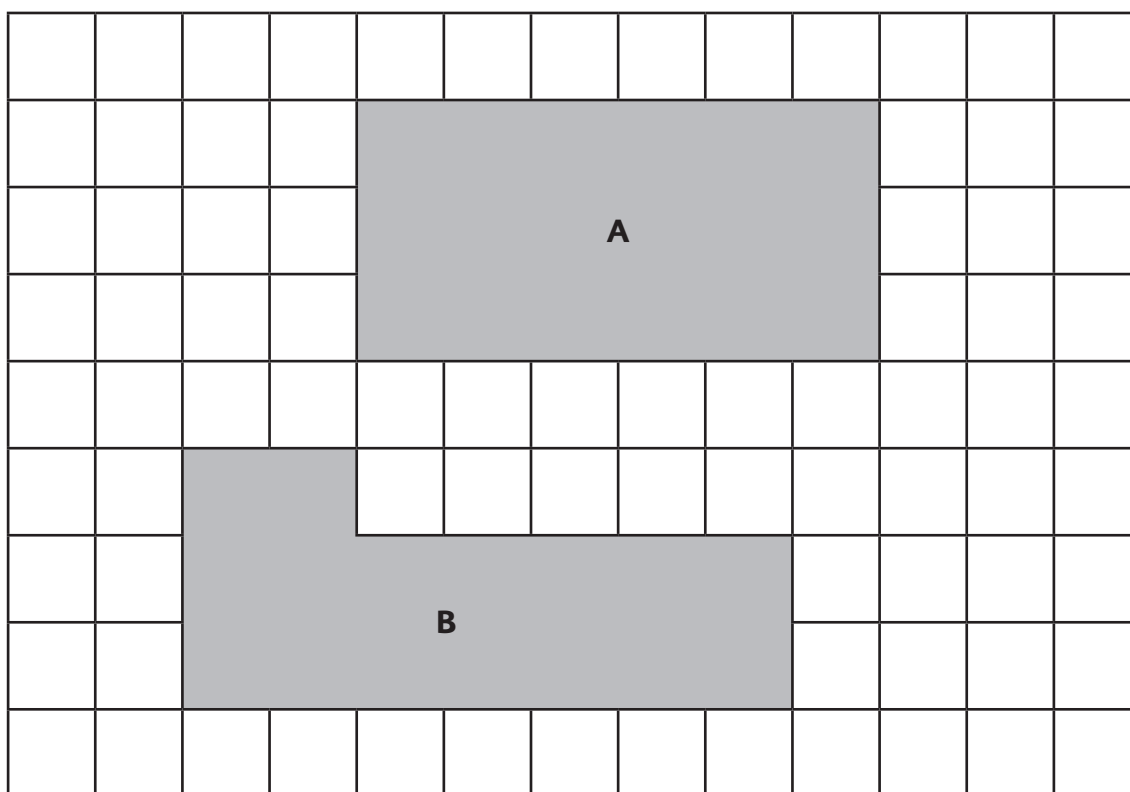
c) g = 2.5kg

f) 3750ml = litres

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 1cm



a) Calculate the perimeter Shape **A** = cm Shape **B** = cm

b) Calculate the area Shape **A** = cm² Shape **B** = cm²

4 marks

Total for this page

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

- a) The heights of three different houses are shown here. Put the houses in order of height by writing A, B or C in the boxes below, starting with the smallest. (Houses not drawn to scale).



A
8.43m

smallest



B
8.07m

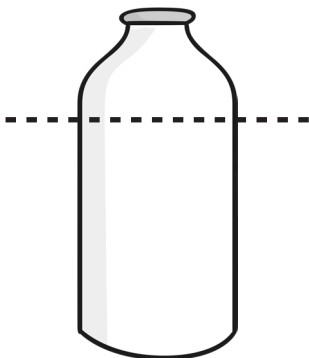


C
8.17m

tallest

1 mark

- b) Here is a 1 litre bottle of milk. Some of it has been used. Which is the most sensible estimate of what remains? Tick the best estimate.



75ml ☐

750ml ☐

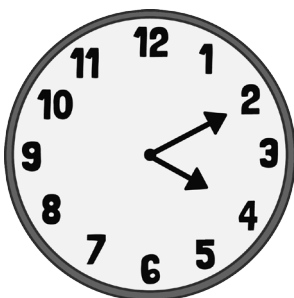
7.5ml ☐

1 mark

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 **afternoon**.

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

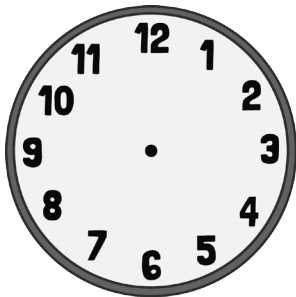
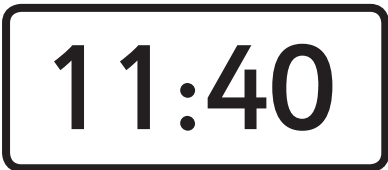


1 mark

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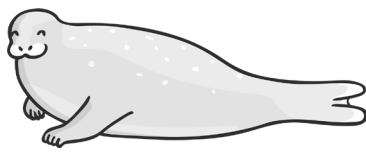
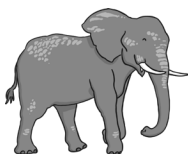
The time shown on the 12 hour digital clock is in the morning.

b) Draw the same time on the analogue clock.



1 mark

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



Here is a timetable for feeding times at a zoo:

animal	start of feeding time	how long it lasts
elephants		30 minutes
seals	11:50am	35 minutes
tigers	12:30pm	40 minutes
penguins	1:40pm	35 minutes

a) What time does the feeding of tigers end?

b) If the elephant feeding time ended at 11:15 am, what time did it start?

c) How long does it take to feed all the animals? Write your answer in hours and minutes.

3 marks

Total for this page

A 4 x 200metre relay team record the following times (to the nearest second)



runner 1	22 seconds
runner 2	25 seconds
runner 3	21 seconds
runner 4	19 seconds

- d) In minutes and seconds, how long did it take the team to run the whole race?

1 mark

- e) Jusna is 7 years and 6 months old. How old will she be in 10 months time? Write your answer in Years and months.

1 mark

Children are often taught this rhyme to help them remember the number of days in a month:

30 days has
September,
April, June and
November.
All the rest have 31,
Except for February
which has 28 days
and 29 on a
leap-year


- f) How many weeks and days are there in June, May and October?

weeks

days

1 mark

Total for
this page

question	answer	marks	notes
1. Convert between different units of measurement.			
a	150 minutes	1	
b	1.5km or 1 ½ km	1	accept 1.50 km
c	2500 g	1	
d	210 minutes	1	
e	12.5cm or 12 ½ cm	1	
f	3.75 litres or 3 ¾ litres	1	accept 3.750 litres
2. Measure and calculate the perimeter of a rectilinear figure and find the area of rectilinear shapes by counting squares.			
a	shape A: 18cm shape B: 20cm	2	
b	shape A: 18cm shape B: 16cm	2	
3. Estimate, compare and calculate different measures, including money in pounds and pence.			
a	B,C,A	1	
b	750 ml	1	Accept any way of indicating 750 ml
4. Read, write and convert time between analogue and digital 12- and 24-hour clocks.			
a	16: 10	1	
b		1	
5. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.			
a	1:10 pm	1	Also accept ten past one, 10 past 1 or 13:10. Must state pm or afternoon
b	10:45 am	1	Also accept to 11 or quarter to eleven Must state am or morning
c	2 hours 20 minutes	1	Only accept answer written as hours and minutes
d	1 minute 27 seconds	1	Only accept answer written as minutes and seconds
e	8 years and 4 months	1	Only accept answer written as years and months
f	13 weeks and 1 day	1	Only accept answer written as weeks and days
		Total 20	