

DEPARTMENT FOR CURRICULUM,
LIFELONG LEARNING AND EMPLOYABILITY
Educational Assessment Unit
Annual Examinations for Primary Schools 2024

YEAR 6	MATHEMATICS	TIME: 1 hr 15 min
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Name: _____ Class: _____

Section A

1. Work out

a)	i) $43 + 9 =$	ii) $100 - 45 =$
b)	i) $300 + 700 =$	ii) $9 + 9 + 9 = 9 \times$
c)	i) $0.9 + 0.1 =$	ii) $8.5 - 1.25 =$
d)	i) $25 \times 5 = 125$ so $125 \div 5 =$	ii) $67 \div 8 = 8 \frac{\begin{array}{ c } \hline 3 \\ \hline \end{array}}{\begin{array}{ c } \hline \\ \hline \end{array}}$
e)	i) $+ 6.48 = 15.08$	ii) $24 - (6 \times 3) =$

(5 x 2 marks = 10 marks)

2. Complete

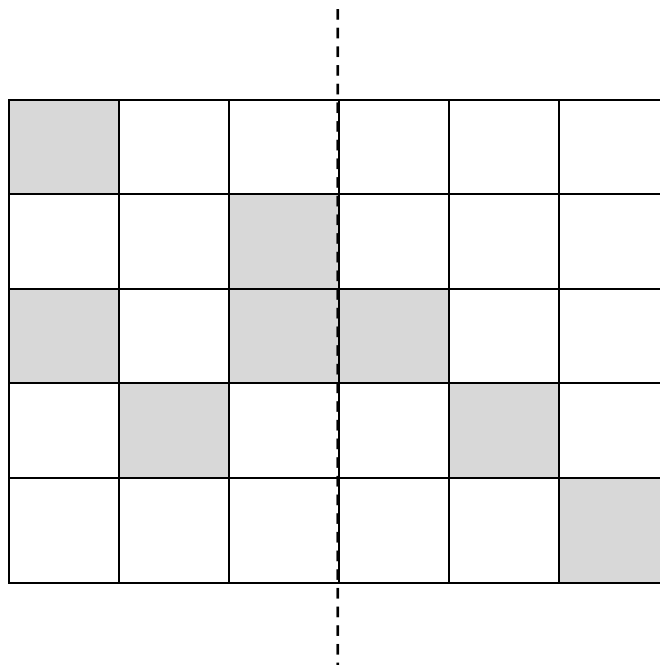
a)	Some children estimate the number of beans in a jar. <table border="1" data-bbox="783 383 1027 674"> <tr> <td>David</td> <td>1,310</td> </tr> <tr> <td>Kate</td> <td>1,350</td> </tr> <tr> <td>Ann</td> <td>1,290</td> </tr> <tr> <td>Sam</td> <td>1,400</td> </tr> </table> The exact number of beans is 1,380. Who has the closest estimate to the exact number of beans?	David	1,310	Kate	1,350	Ann	1,290	Sam	1,400
David	1,310								
Kate	1,350								
Ann	1,290								
Sam	1,400								
b)	Write the next two numbers in each sequence. i) 7·5, 7·6, 7·7, 7·8, , ii) 5, 4·8, 4·6, 4·4, ,								
c)	Circle the factors of 21. 3 4 7 6 15								
d)	137,546 rounded to the nearest 1,000 is .								
e)	Fill in with <, > or = i) $1,310 \times 5$ 655×10 ii) $321 \div 3$ $51 \cdot 5 \times 3$								

(5 x 2 marks = 10 marks)

Section B

3. **Shade more squares** to make the grid **symmetrical**.

Note: Shade the **least** number of squares possible.



(4 marks)

4. a) Write the fractions in order, **smallest first**

$$\frac{6}{5}$$

$$\frac{3}{5}$$

$$\frac{3}{4}$$

	,		,	

smallest

- b) Circle the improper fraction that is **equivalent** to $6\frac{7}{8}$.

$$\frac{67}{8}$$

$$\frac{55}{8}$$

$$\frac{76}{8}$$

(4 marks)

5. Tick (✓) the **two correct statements**

a)	A triangle is a 3D shape.	
b)	A quadrilateral has 4 sides.	
c)	A square has 4 lines of symmetry.	
d)	A cuboid has 6 right angles.	

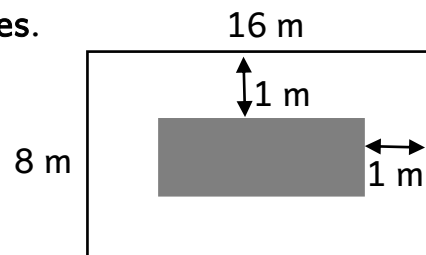
(4 marks)

6. Mr Smith has a rectangular plot of land.

It measures **16 m** by **8 m**.

He uses the **shaded area** to grow vegetables.

There is a **1 m path** around the shaded area.



a) What is the **area** of the **shaded part**?

Show your
working here.

m²

b) What is the **area** of the **path**?

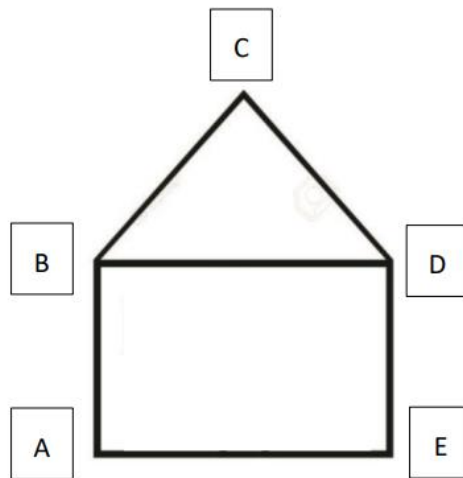
Show your
working here.

m²

(4 marks)

7. Luke and Yana draw the house below.

Now, they are talking about the lines making up the house drawing.



a) The house has _____ pairs of parallel lines.

b)

Lines BD and AE are parallel lines while BC and AB are perpendicular lines.



Yana

Line AB is parallel to line DE. Lines AE and DE are perpendicular lines.



Luke

Who is correct? Explain why.

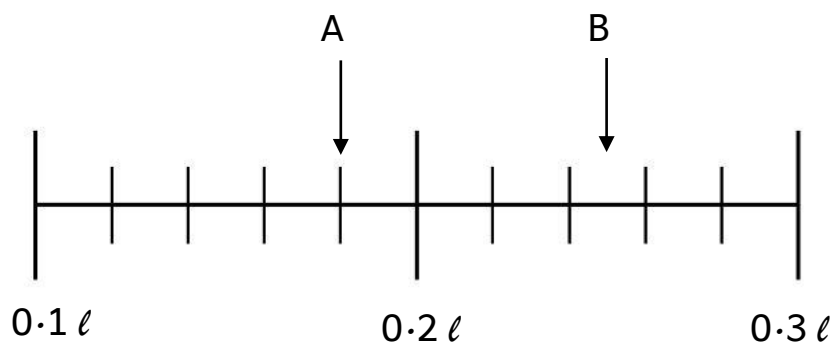
(4 marks)

8. The chart shows the capacity of different containers.

Container	Capacity in <i>ml</i>	Capacity in <i>ℓ</i>
Kettle	600 <i>ml</i>	0.6 <i>ℓ</i>
Juice carton		0.18 <i>ℓ</i>
Water cup		$\frac{1}{10}$ <i>ℓ</i>
Drinking cup	250 <i>ml</i>	0.25 <i>ℓ</i>

a) **Complete** the table.

b) A and B represent the capacity of two of the containers in the table above.



Write the **name of the container** with the capacity marked by A and B on the scale.

A =

B =

(4 marks)

9. a) On a Monday, **75 people** ride the bumping cars.

Each bumping car takes 2 people.

What is the least amount of bumping cars that are needed?

Show your
working here.

bumping cars

b) i. Joshua has **€26.50** to spend on rides.

All rides cost €2.50.

How many rides can Joshua pay for?

Show your
working here.

rides

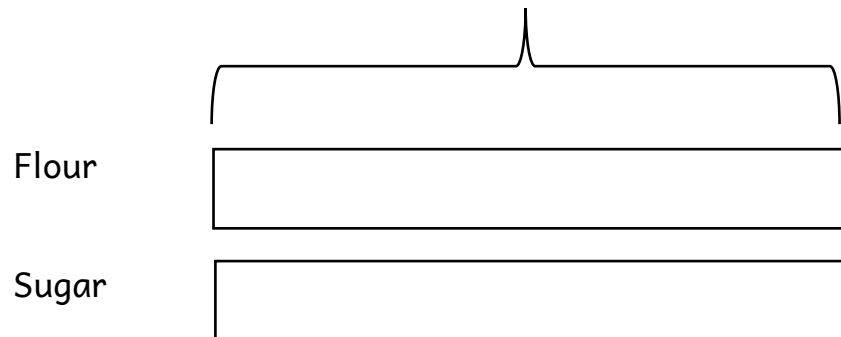
ii. **How much money** will Joshua have **left** after paying for all the rides?

Show your
working here.

left

(6 marks)

10. Wendy is cooking jam tarts.
She has an **equal amount** of flour and sugar.



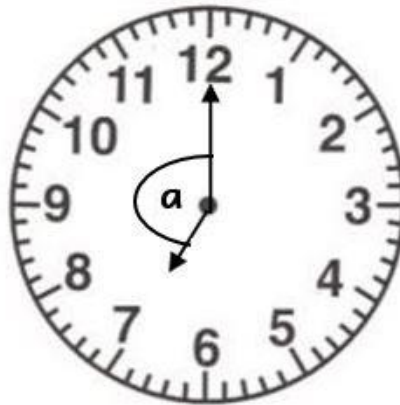
She uses **700 g** of flour and **170 g** of sugar.
Wendy now has **3 times** as much sugar as flour.
How much **flour** does Wendy have at the **start**?

Show your
working here.

g

(6 marks)

11.



a) Underline the correct answer.

Angle **a** is (acute, obtuse).

b) Use a protractor to **measure** angle **a**.

Angle **a** is

c) How many **right angles** does the minute hand turn **one hour later**?

Show your
working here.

right angles

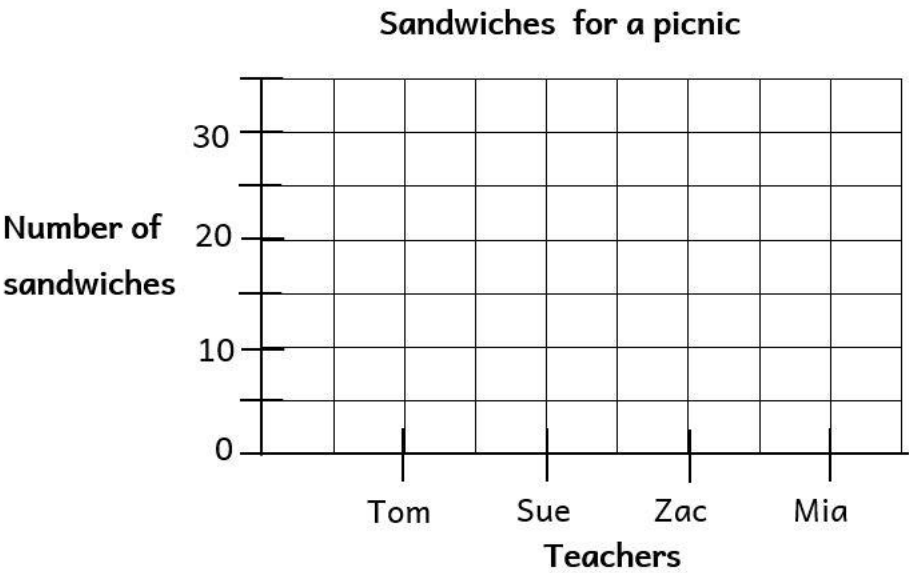
(6 marks)

12. The pictograph shows the **number of sandwiches** that **4 teachers** bring for a picnic.

Teachers	Sandwiches
Tom	   
Sue	 
Zac	
Mia	 

Key
 = 10 sandwiches

- a) Use a ruler and pencil to draw the number of sandwiches that each teacher brings on the bar-line graph below.



- b) There is **exactly half a sandwich** for **each student**.
How many students go to the picnic?

Show your working here.

students

(6 marks)

13. Look at the aircraft landing timetable below:

Time	Arriving from	Flight	Remarks
12:15	Heathrow	HT 235	Landed
12:30	Brussels	BS 321	Expected 12:38
14:15	Frankfurt	FT 346	Expected 14:08
14:45	Catania	CT 465	Delayed

- a) Use a ruler and pencil to draw the hands on the clock to show the arrival time of the flight from Heathrow.



- b) Due to favourable wind direction, the flight from Frankfurt is expected to land **earlier** than scheduled.

How many **minutes earlier** is it going to land?

Show your
working here.

minutes

- c) The flight from Catania is delayed by 25 minutes due to air traffic.

At what time does the flight from Catania arrive?

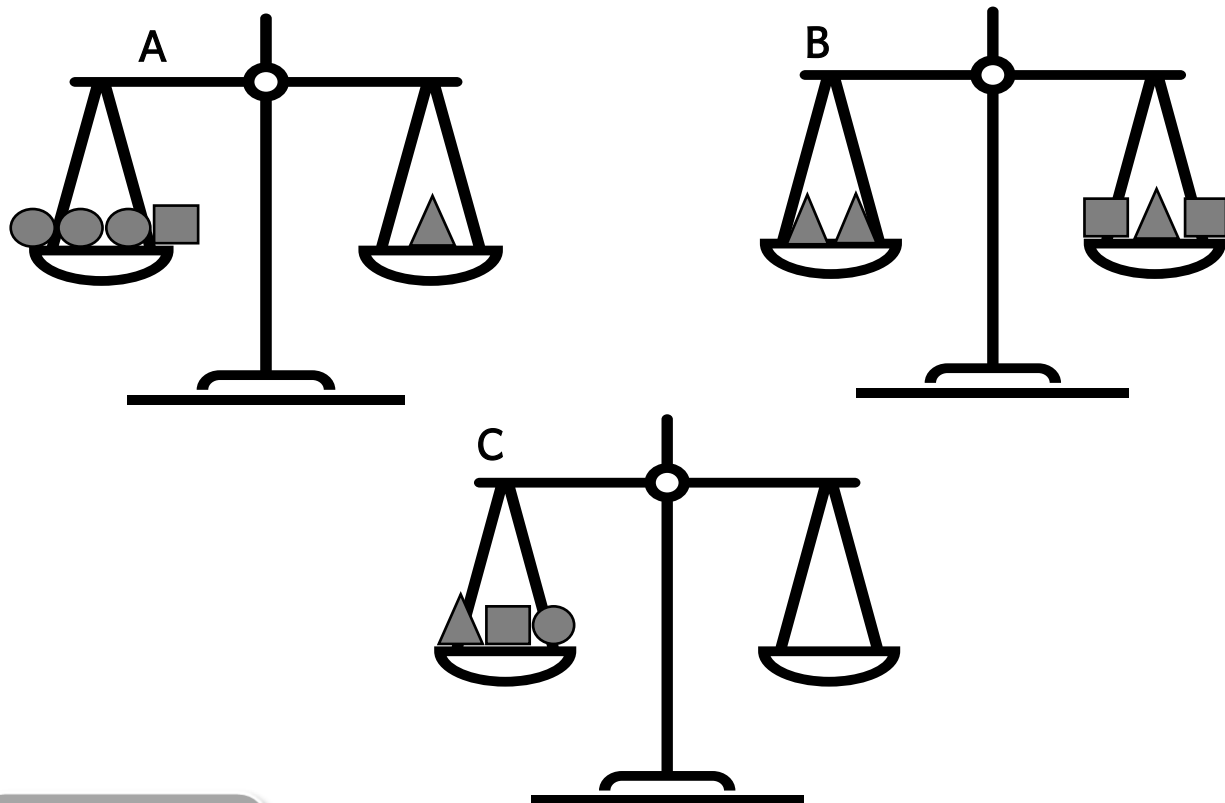
Give your **answer** in **12-hour clock**.

Show your
working here.

(6 marks)

14. Look at the diagrams below.

How many circles are needed to balance the scale C?



Show your
working here.

circles

(6 marks)

END OF EXAMINATION

Marks' Scheme	Nos.	1 (a-e)	5 x 2	=	10
		2 (a-e)	5 x 2	=	10
		3 - 8	6 x 4	=	24
		9 - 14	6 x 6	=	36
TOTAL					<u>80</u>