

Year 8 Level 3 Maths Practice Assessment

Name:

Class:

Date:

A Counting and understanding numbers:

1. Write these numbers in order of size, starting with the smallest.

548	584	485	854	458	845
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

smallest

1 mark (L3/1)

2. Write these temperatures in order from hottest to coldest.

1°C	-2°C	0°C	-1°C	2°C	-3°C
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

hottest

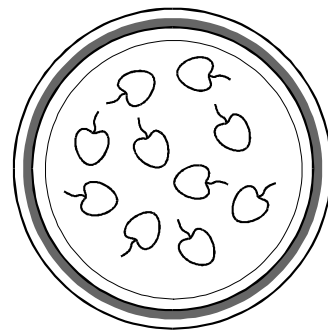
1 mark (L3/2)

3. Write the missing numbers in this sequence.


<input type="text"/>	97	87	<input type="text"/>	67
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1 mark (L3/3)

4. Jack ate **one third** the cherries on the plate. These are the cherries that were **left**.



How many cherries were on Jack's plate **before** he ate one third of them?



1 mark (L3/4)

5. These are the prices in a shoe shop.



boots
£45.50



sandals
£12.75



trainers
£34.99

How much **more** do the boots cost than the trainers?



£

1 mark (L3/5)

6. Circle the numbers which are multiples of 6.

54 28 34 55 42 24

1 mark (L3/6)

B Calculating:

7. Use $28 \times 3 = 84$ to complete these number sentences

$$84 \div 3 = \square$$

$$84 \div 28 = \square$$

1 mark (L3/7)

8. Write in the missing number.



$$+ 6 = 8 \times 10$$

1 mark (L3/8)

9. Calculate $83 - 26$

1 mark (L3/9)

10. Write the answer in the box.

$$248 + 164 = \boxed{}$$

1 mark (L3/10)

You **must** show your working

11. There are 4 pens in a box.

Tony needs **54 pens**.

How many **boxes** does he need?

1 mark (L3/11)

12. Work out **$326 - 108$**

1 mark (L3/12)

13. Calculate **$47 \div 3$**

1 mark (L3/13)

C Shape, Space and Measure:

14. Put ticks (✓) and crosses (✗) on the chart to complete it correctly.
One has been done for you.

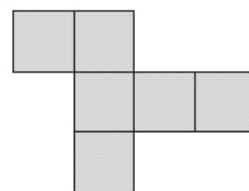
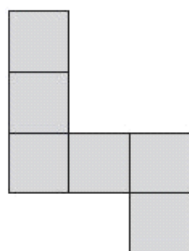
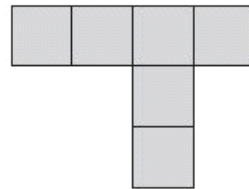
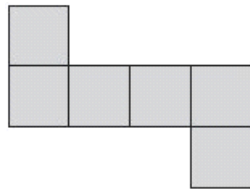


Shape	It is a quadrilateral	It has one or more right angles
	✗	✓

2 marks (L3/14)

15. Here are four diagrams.

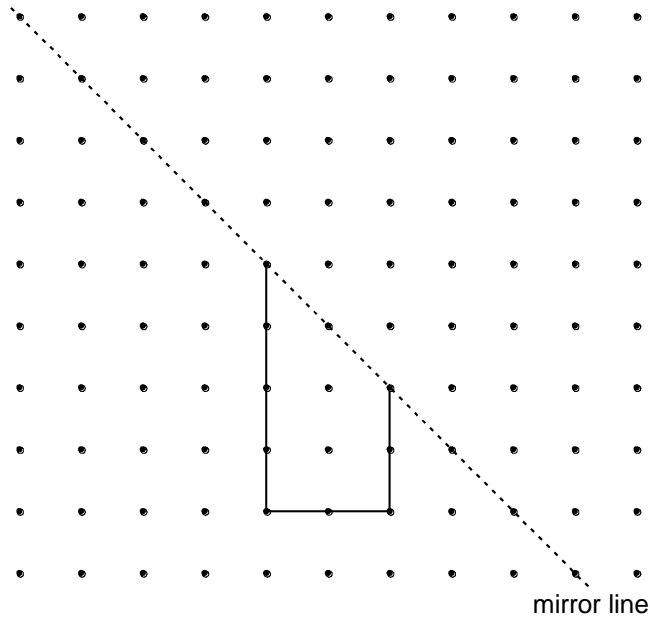
On each one put a tick (✓) if it is a net of a cube.
Put a cross (✗) if it is not.



2 marks (L3/15)

16. Use a ruler to draw the **reflection** of this shape in the mirror line.

You may use a mirror or tracing paper.



1 mark (L3/16)

17. Here is an arrow.



The arrow is **rotated 90° clockwise**.
In which direction does the arrow now point?
Put a tick (✓) by the correct answer.



1 mark (L3/17)

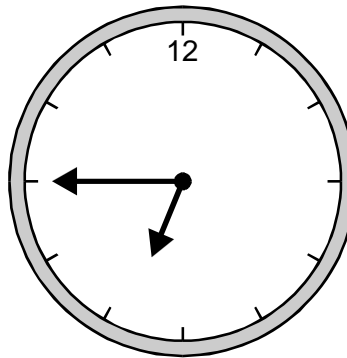
18(a) Measure this line. Use a ruler.



cm

1 mark (L3/18)

18(b) Here is a clock.



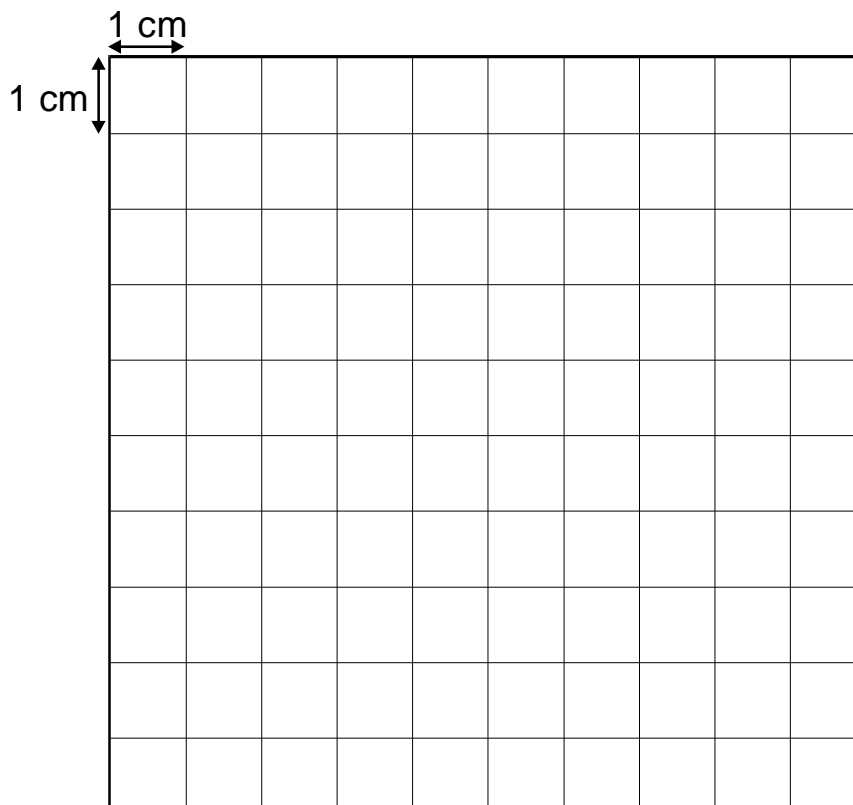
How many minutes is it **until** this clock shows 7:20?

minutes

1 mark (L3/18)

19. Draw a rectangle whose perimeter is 18 centimetres (cm).

You must use the lines of the grid.



1 mark (L3/19)

D **Data Handling:**

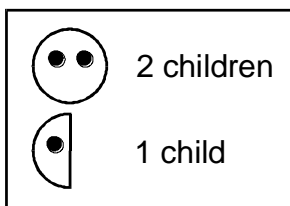
- 20.** You have to throw a dice and record the numbers that turn up.
Design a tally chart to record the outcomes





1 mark (L3/20)

21. **Class survey of favourite fruit drinks**

flavour	number of children
pineapple	2
orange	10
blackcurrant	8
grapefruit	6
apple	9

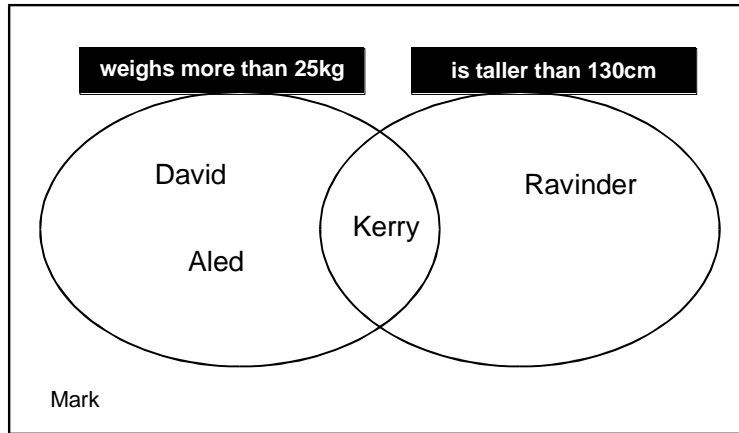
Complete the pictogram for the class.



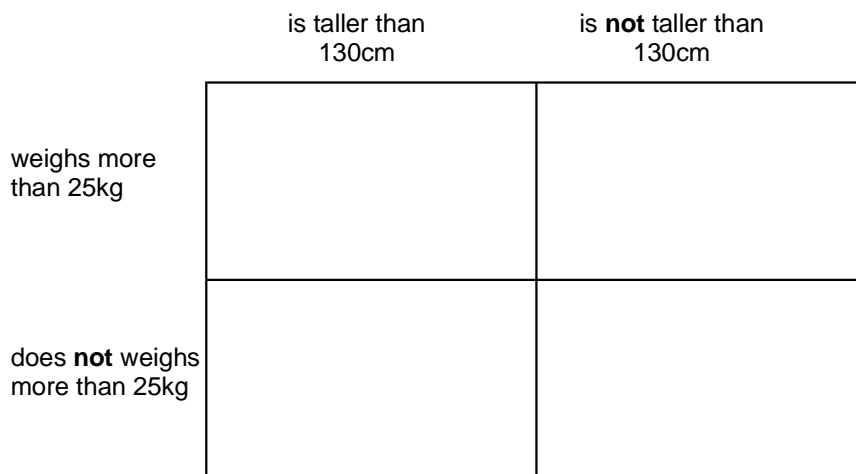
flavour	number of children
blackcurrant	
apple	
	
orange	
pineapple	

1 mark (L3/21)

22. Five children sorted themselves into these sets



Complete this diagram to show the same information.



2 marks (L3/22)

23. Here is a pictogram with information about some pupils and their method of travel to school.

Dev says,

“5 less children like to come to school by bus than on a bicycle.”

Molly says,

“You can’t say that for certain.”

	number of children
car	
bus	
walk	
taxi	
bicycle	

a) Who do you agree with? Explain your reason.

.....
 1 mark (L3/23)

b) If each symbol represents five pupils, how many people took part in the survey?

.....1 mark (L3/23)