## Q Exam Ninjaza

## KEY STAGE 2 MATHEMATICS

## SET A

## PAPER 2 : REASONING

(3) No Calculators
(3) 40 Minutes

First Name

Last Name

| Total Marks |  |
| :--- | :--- |
|  | 35 |

1. Put the correct numbers in the boxes provided.

One has been done for you.

$$
170 \xrightarrow{\text { is } 50 \text { more than }} 120
$$


2. A pack of paper contains 300 sheets.

8 children take 7 sheets each.
How many sheets are left in the pack?
Show your working.
3. This graph shows the temperature in six cities on one day.


Which city was $6^{\circ} \mathrm{C}$ warmer than Moscow?


What was the difference in temperature between
Moscow and Berlin?
4. Connect each shape with its equivalent fraction.

One has been done for you.

5. What is 567 minutes in hours and minutes?

6. John arrives for a meeting at eight minutes past ten.

He is 13 minutes late.
What time was the meeting due to start?

7. In the circles below, write a value that belongs to each set.

One has been done for you.

8. A gardener sells his apples in bags.

He uses this formula to work out how much to charge:

Cost $=$ number of apples $\times 30 p+5 p$ for the bag

How much will a bag of 12 apples cost?

## E

Helen buys a bag of the apples for $£ 4.55$
Use the formula to work out how many apples Helen bought.

## Show your working.

apples
9. Write the missing values in the sum below to make the long multiplication correct.

10. A triangle is drawn below:


Measure the longest side and give your answer in centimetres.

Measure the largest angle.

11. Write whole numbers in the boxes so that the equation is correct. The numbers do not have to be the same.

12. What number is exactly halfway between 1.4 and 1.7 ?

13. Line $A$ joins two vertices of a regular hexagon.

Draw a line that connects two vertices and is parallel with line A.


Draw a line that connects two vertices and is perpendicular to line $A$.

14. Below is a grid of regular hexagons. The shaded section has an area of 3 hexagons and a perimeter of 28 cm .


Shade another section of the grid which has an area of 4 hexagons and a perimeter of 28 cm .

No Calculators.
15. A shaded isosceles triangle is shown below inside a rectangle.


Calculate the size of angle $\chi$.

Show your working.
16. Tick all the patterns below that have at least one line of symmetry.

$\square$


$\square$
17. Raymond recorded how long he spent on his computer each day for seven days.

| Day | Time (in minutes) |
| :---: | :---: |
| Monday | 120 |
| Tuesday | 35 |
| Wednesday | 10 |
| Thursday | 22 |
| Friday | 50 |
| Saturday | 190 |
| Sunday | 210 |

What is the mean time per day that Raymond spent on his computer during that week?

## Show your working.

18. 5 grams of silver costs $£ 28.90$.

What is the cost of one kilogram of silver?
Show your working.
19. 50 men and 200 women were asked which variety of tea they preferred.

The pie charts below show the results.

Men

Women

Elsie said that the pie charts showed that more women preferred Assam tea than men.

Is Elsie correct? Explain your answer.
20. Rob read $\frac{3}{7}$ of his new detective book on Friday night.

He read the remaining 100 pages the next day to finish the book.
How many pages are there in Rob's book?

## Show your working.

21. Round 87,436 :
to the nearest 50
to the nearest 100

to the nearest 1000
to the nearest 10,000
