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Qualifying Test

21st April 2021

question no.	1	2	3	4	5	6	7	8	9	10
marks										

question no.	11	12	13	14	15	16	17	18	19	20
marks										

question no.	21	22	23
marks			

SCORE OBTAINED	
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Section A

Answer ALL Questions.

Tick (✓) the correct answer in each question.

Each question carries 2 marks.

1. Which number is **one thousand times 0.735**?

a. 7.35

b. 73.5

c. 735

d. 7350

2. Carla sticks four shapes on her bedroom windowpanes.

She sticks the Triangle **below** the Circle,

the Square on an **even numbered** windowpane and

the Heart on the **right** of the Triangle.

Which **shape** is found on windowpane numbered 1?

a. Triangle

b. Circle

c. Heart

d. Square

1	2
4	3

3. Paul is thinking about the **smallest** possible **5-digit number** with a **product** of its **digits** equal to **9**.

What is the **digit total** of this 5-digit number?

- a. 5
- b. 9
- c. 13
- d. 14
-

4. **Work out the missing number.**

$$24 \times \square = 648 \div 9$$

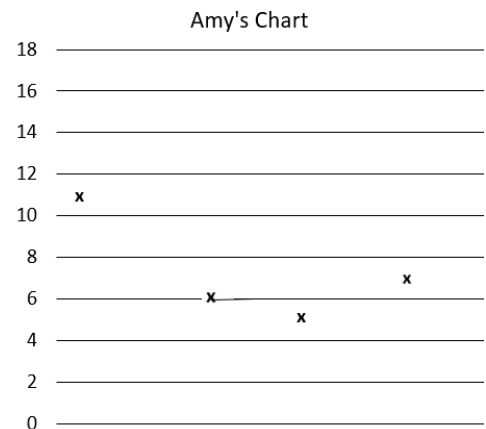
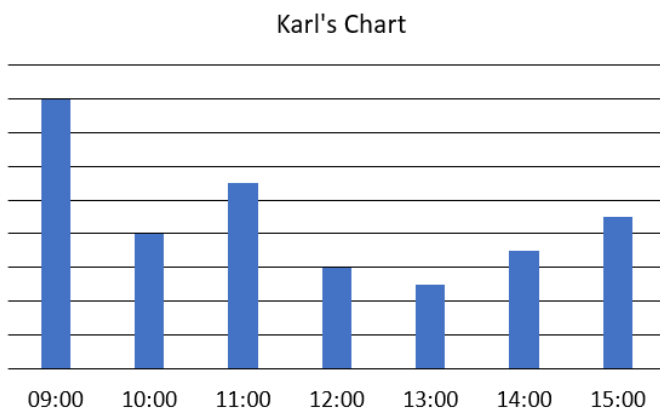
- a. 2
- b. 3
- c. 4
- d. 5

5. Karl and Amy collected the **same** data about the number of persons in a library.

The **charts** below show their data collected.

Some labels are **missing**.

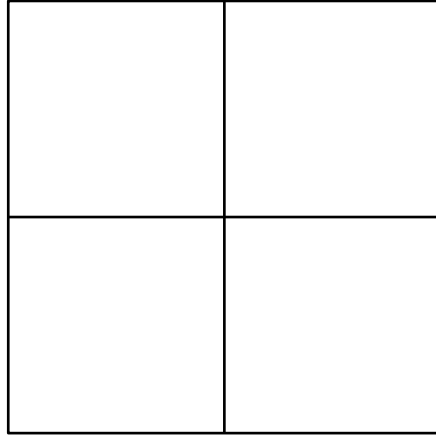
Karl's chart starts at **9 a.m.**



At **what** time does Amy's chart **finish**?

- a. 3:00 p.m.
- b. 11:00 a.m.
- c. 2:00 p.m.
- d. 7:00 p.m.

6. How many **more rectangles** than **squares** are there in the diagram below?



- a. 0
- b. 1
- c. 4
- d. 5

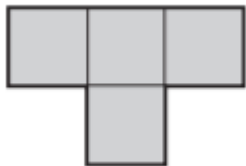
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7. The **area** of a square is **equal** to the area of a rectangle.

The rectangle is 9 cm by 4 cm.

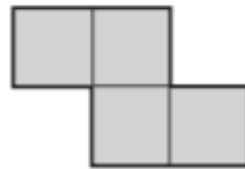
Work out the **perimeter of the square**.

- a. 6 cm
- b. 9 cm
- c. 12 cm
- d. 24 cm

8. Mark has **two** T-Shapes made of 4 squares each.
 Tania has **two** Z-Shapes made of 4 squares each.
 Mark fits his two T-Shapes together to create a **new shape**.
 Tania fits her two Z-Shapes together to create a **new shape**.

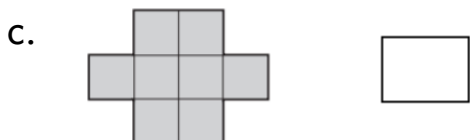
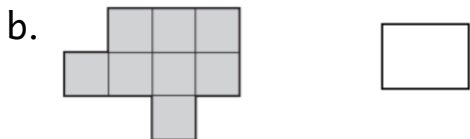
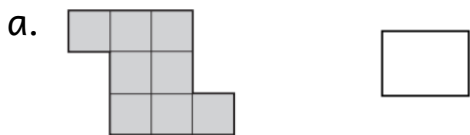


T-Shape



Z-Shape

Which **shape** can both Mark and Tania create using their **two shapes**?



9. Laura noticed that her father is **three times** as old as she is today.
The sum of their ages in **4 years'** time will be **48**.
What is Laura's age **today**?

a. 10 years

b. 11 years

c. 12 years

d. 13 years

10. Claire is facing **North-East**.

She turns **clockwise**.

She is now facing **South**.

What **angle** does Claire turn?

a. 45°

b. 135°

c. 225°

d. 315°



11. Philip **multiplied** a number by **12** and then **added 12** to his answer.

His final answer is **360**.

What number did Philip **start** with?

a. 15

b. 29

c. 30

d. 31

12. Which is the **smallest fraction**?

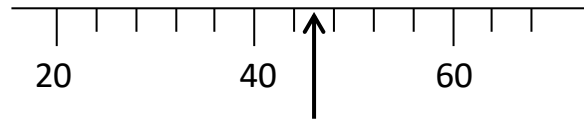
a. $\frac{1}{4}$

b. 0.2

c. $10 \div 30$

d. $\frac{1}{2}$ of $\frac{1}{3}$

13. Which **number** is the arrow pointing to?



- a. 43
- b. 44
- c. 45
- d. 46

14. How many **metres squared (m^2)** are there in **1 kilometre squared (km^2)**?

- a. 1 000 m^2
- b. 10 000 m^2
- c. 100 000 m^2
- d. 1 000 000 m^2

15. A student noted that

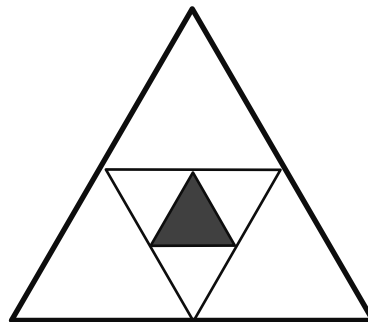
$$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = \frac{9 \times 10}{2} = 45$$

What is the **sum** of all the whole numbers from 1 to 100 (inclusive)?

- a. 10 100
- b. 9 900
- c. 5 050
- d. 4 950
-

16. What **fraction** of the largest triangle is **shaded**?

- a. $\frac{1}{16}$
- b. $\frac{1}{7}$
- c. $\frac{1}{8}$
- d. $\frac{1}{4}$



17. Ms Borg is at Ċirkewwa to get the Gozo Ferry.
She arrived at Ċirkewwa at **9.42 a.m.**
The next ferry departs at **10.12 a.m.**
How many **seconds** does Ms Borg have to wait?

- a. 3600 seconds
- b. 1800 seconds
- c. 180 seconds
- d. 30 seconds

18. **31st October 2021** is a **Sunday**.
30th November 2021 is a:

- a. Monday
- b. Tuesday
- c. Wednesday
- d. Thursday

19. Maria has **€2.50** in her purse.

She buys **some** pens and pencils from the stationery.

Each pen costs **15c** and each pencil costs **10c**.

She buys **4 times** as many pens as pencils.

She has **40c left**.

How many **pens** does she buy?

a. 3 pens

b. 12 pens

c. 15 pens

d. 18 pens

Section B


Answer ALL Questions.

Show your working.

Each question carries 3 marks.

20. Luke uses **nine different digits** to form **3 three-digit numbers**.
He then **adds** these 3 three-digit numbers formed.
What is the **smallest** possible **total** he can get?

21. Max and Kim each have a box containing the **same** number of marbles.
Kim puts **half** of her marbles into Max's box.
Max wants to make the number of marbles in each box **equal** again.
What **fraction** of the marbles in his box must Max put into Kim's box?



22. There are **24** students in a class.
They have a party, for which each boy gets **2 balloons** and each girl gets **4 balloons**.
The total number of balloons is **68**.
How many **girls** are there in the class?



23. The following **cube** is made up of **smaller cubes**.

A small cube is considered **visible** if you can see at least **one** of its **faces** in the below diagram .



How many of the **small cubes** are **not visible** in this diagram?

small cubes

End of test