Let the mind manage the body
Que l'esprit gère le corps

MATHEMATICS

(Subject code No. P120)

Index Number: .....

MAURITIUS EXAMINATIONS SYNDICATE

Primary School Achievement Certificate Assessment

October 2019

Time: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

1. Check that this assessment booklet contains **44** questions printed on **15** pages numbered 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.
2. Write your Index Number on the assessment booklet in the space provided above.
3. You should **not** use red, green or black ink in answering questions.
4. Show **all** your workings clearly in the space provided for each question.
5. Diagrams are **not** drawn to scale unless stated otherwise.
6. Attempt **all** questions.

Question	Marking			Revision			Control		
	Marks		Sig	Marks		Sig	Marks		Sig
1 - 11									
12 - 16									
17 - 28									
29 - 31									
32 - 35									
36 - 37									
38 - 39									
40									
41									
42									
43									
44									
Total									
Sig (HOG)									

Marks

1. Work out:

$$\begin{array}{r} 3\,1\,1 \\ +\ 4\,6\,5 \\ \hline \end{array}$$

Answer: _____ [1]

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2. Work out:

$$\begin{array}{r} 8\,7\,9 \\ -\ 1\,2\,4 \\ \hline \end{array}$$

Answer: _____ [1]

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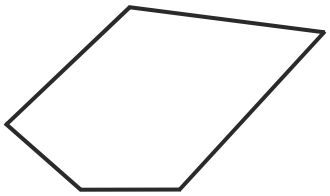
3. What is the name of the shape?



Answer: _____ [1]

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4. Reduce $\frac{6}{15}$ to its lowest terms.

Answer: _____ [1]

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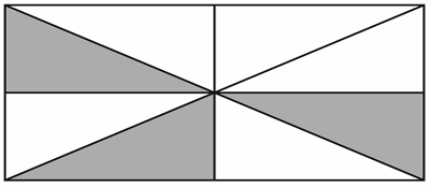
5. What fraction of the diagram is **shaded**?



Answer: _____ [1]

Marks

6. Write down the **missing** term in the sequence below.

3 , 6 , 12 , _____ , 48 , 96 [1]

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7. Work out:

$3 \overline{)\,639}$

Answer: _____ [1]

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8. Find the **value** of 7^2.

Answer: _____ [1]

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9. Convert 7 metres into centimetres.

Answer: _____ **cm** [1]

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10. Fill in the blanks in the table below. An example is given.

In words	In figures
Example: Five hundred and thirty six	536
(a) _____	742
(b) One thousand three hundred and eight	_____

[2]

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11. Circle the **straight** angle in the list below.

1º , 90º , 180º , 270º , 360º [1]

Marks

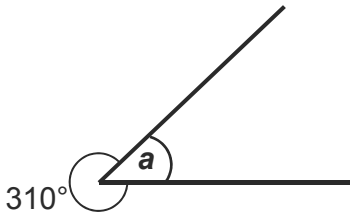
12. Work out: $\frac{7}{11} - \frac{2}{11}$

Answer: _____ [1]

13. What is the Highest Common Factor **(H.C.F.)** of 24 and 36?

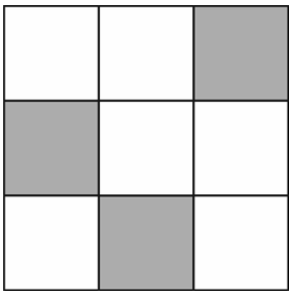
Answer: _____ [2]

14. Calculate the size of angle ***a***.



Answer: _____**°** [2]

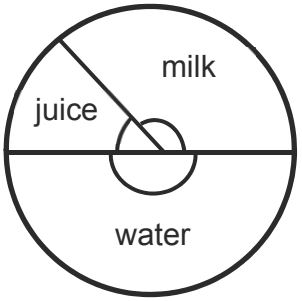
15. The figure below has **only one** line of symmetry. **Draw** the line of symmetry.



[1]

16. The pie chart shows the drinks which pupils in a class like.

Which drink do the pupils like the **least**?



Answer: _____

[1]

Marks

For each question from numbers 17 to 28, circle the letter which shows the correct answer. An example has been done for you.

4 + 3 =

A 5 **C** 7

B 6 **D** 8

17. The value of **7** in 21.17 is

A 7 hundredths
B 7 tenths
C 7 units
D 7 tens

18. 42% is equivalent to

A 42
B 4.2
C 0.42
D 0.042

19. The Least Common Multiple (**L.C.M**.) of 6 and 9 is

A 3
B 6
C 18
D 54

20. Which number is 100 **less** than 24 017 ?

A 23 017
B 23 917
C 24 007
D 24 117

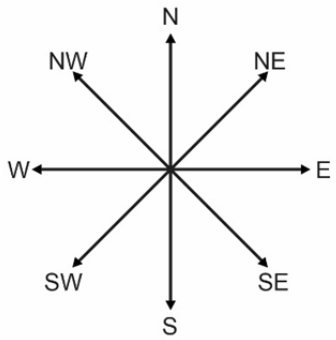
21. The rectangle below has width 3 cm and length 12 cm.

What is the **perimeter** of the rectangle?

A 15 cm
B 20 cm
C 30 cm
D 36 cm

22. Paul is facing **South-West**.

He turns 135° **anti-clockwise**. What direction is Paul facing now?



A North
B East
C South
D West

Marks

23. Which of the following clocks shows the time **19 20** ?

A

B

C

D

24. $(4 \times 10) + (5 \times 100) + (2 \times 1) + (8 \times 1000) =$

A 4258
B 4528
C 8452
D 8542

25. 23 4000 ÷ ☐ = 234 × 100

The **missing** number is

A 10
B 100
C 1000
D 10000

26. $2^2 \times 2^{\square} = 2^3$

The **missing** power is

A 0
B 1
C 2
D 3

27. The 25th of August 2018 was a Saturday.

On which day was the **5th of September 2018**?

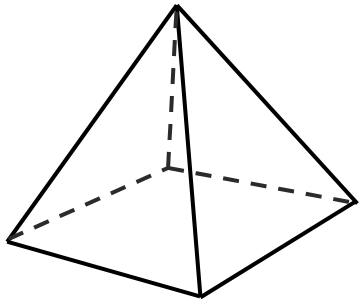
A Wednesday
B Thursday
C Friday
D Saturday

28. In which of the following are the masses arranged in **ascending** order (starting with the **lightest**)?

	lightest		**heaviest**
A	8 kg 105 g	$8\frac{1}{5}$ kg	8.15 kg
B	$8\frac{1}{5}$ kg	8 kg 105 g	8.15 kg
C	8 kg 105 g	8.15 kg	$8\frac{1}{5}$ kg
D	$8\frac{1}{5}$ kg	8.15 kg	8 kg 105 g

Marks

29. Study the 3-D shape below and complete the table which follows.



(i)	**Name of 3-D shape**	
(ii)	**Number of faces**	
(iii)	**Number of edges**	

[3]

30. Work out $\frac{7}{15} \div \frac{4}{5}$, giving your answer in the **lowest form**.

Answer: _____ [2]

31. The **total** mass of Sara and Tony is the **same** as that of Max.

Given that the mass of Max is 90 kg, find the **average** mass of Sara, Tony and Max.

Answer: _____ **kg** [3]

Marks

32. Given that

124 443	÷	419	=	297

Without doing any calculation, write down the missing numbers in the empty boxes below.

(a) 419 × 297 = ☐

(b) 4.19 × ☐ = 12.4443

(c) 297 × ☐ = 124 443 − 297

[3]

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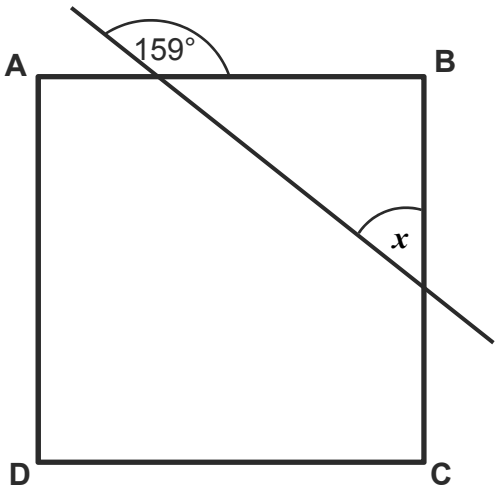
33. **ABCD** is a square.

Not to scale



Find the size of angle x.

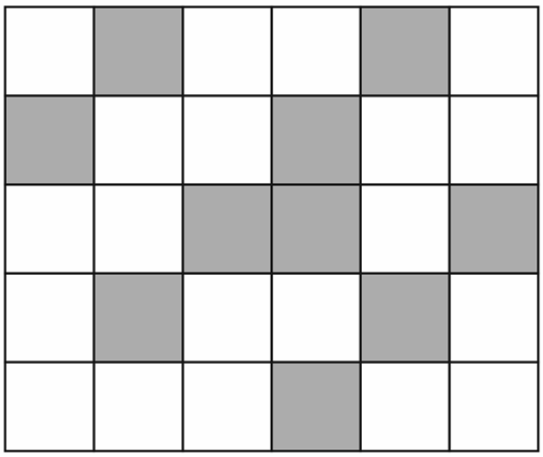
Answer: _____ °

[3]

Marks

34. The figure below shows 30 small squares arranged in a rectangular shape.

How many **more** small squares must be shaded so that 60% of the figure is shaded?



Answer: _____ more squares [3]

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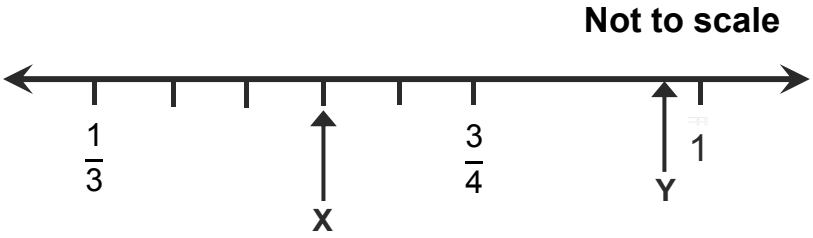
35. The diagram below shows the positions of two numbers, labelled **X** and **Y**, on a number line.



(i) 1. Can **Y** be equal to $\frac{25}{24}$? Tick (✓) the correct box below.

Yes	**No**
☐	☐

[1]

2. Give a **reason** for your answer in **part 1**.

…… [1]

(ii) Find the **value** of **X**.

Answer: _____ [2]

Marks

36. Mrs Lina buys a car for Rs 425 000.

After some time, she sells it at a **loss** of 20%.

(i) Find the amount of money she **loses**.

Answer: Rs _____ [2]

(ii) Find the **selling price** of the car.

Answer: Rs _____ [2]

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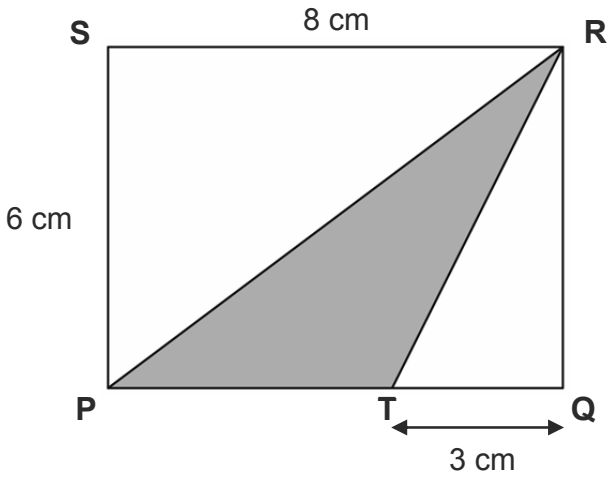
37. **PQRS** is a rectangle.

PRT is a triangle with **QT** = 3 cm.



Calculate the **area** of the shaded region shown.

Answer: _____ cm^2 [4]

Marks

38. Jay has Rs 64 and Rani has Rs 104.

Rani gives some of her money to Jay.

The **ratio** of the amount of money which Jay and Rani now have is 5 **:** 3 .

How much money did Rani **give** to Jay?

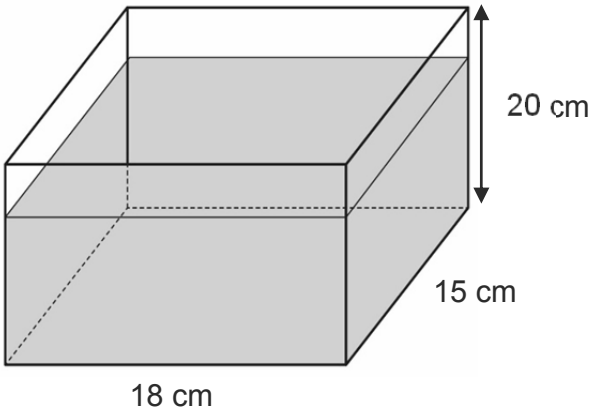
Answer: Rs _____ [5]

Marks

39. The diagram below shows a rectangular tank containing water.

The base of the tank has length 18 cm and width 15 cm. Its height is 20 cm.

The tank is $\frac{3}{4}$ filled with water.



Find

(i) the **height** of water in the tank.

Answer: _____ cm [2]

(ii) the **volume** of water in the tank.

Answer: _____ cm^3 [2]

Marks

40. **€ 1 = Rs 40**

$ 1 = Rs 35

Rishi has € 300.

(i) He changes all his money into rupees.
Calculate the amount of money he gets in **rupees**.

Answer: Rs _____ [2]

(ii) If he buys a mobile phone for Rs 7625 and changes the **remaining** amount of money into dollars ($), find the amount of money he gets in **dollars**.

Answer: $ _____ [3]

Marks

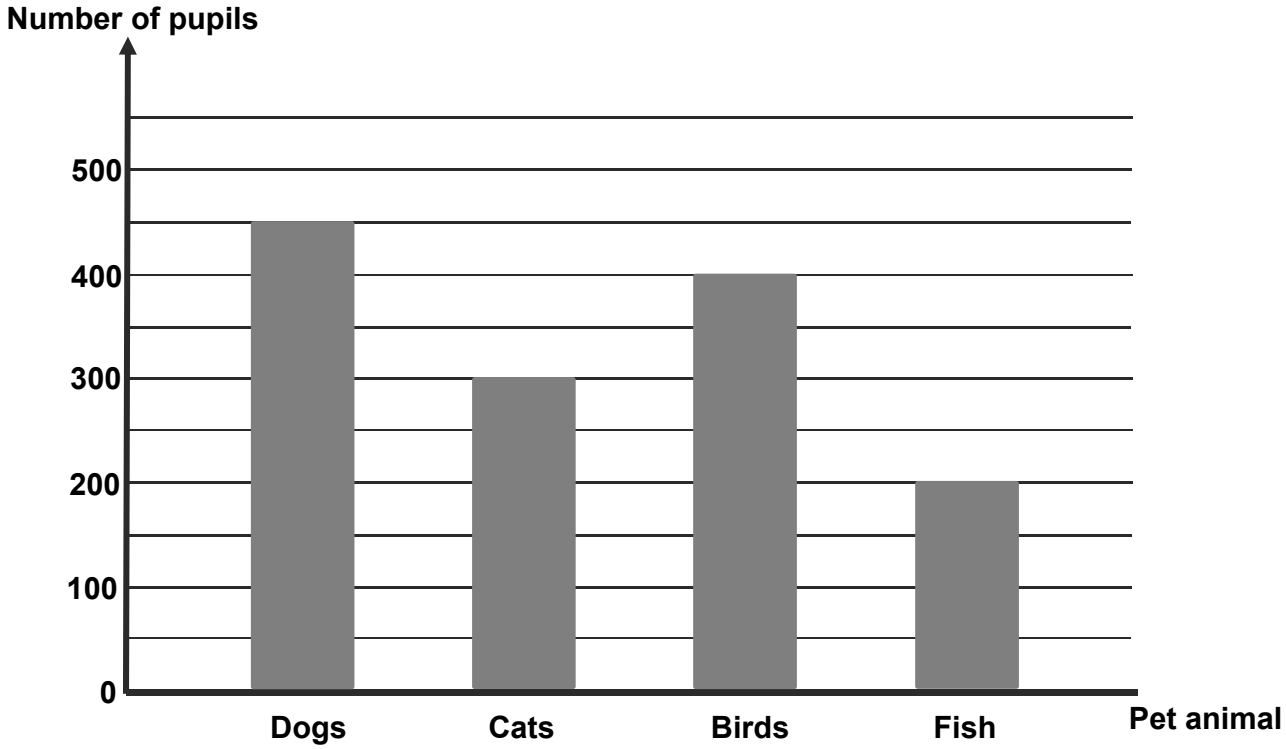
41. On a farm, $\frac{5}{9}$ of the animals are chickens, $\frac{1}{4}$ of the **remaining** animals are goats and the rest are ducks.

If there are 27 ducks, find the **total** number of animals on the farm.

Answer: _____ animals [6]

Marks

42. The bar chart below shows the number of pupils in a primary school who prefer either **Dogs**, **Cats**, **Birds**, or **Fish** as pet animal.



(a) Study the bar chart and fill in the blanks below.

(i) How many pupils prefer **Dogs**?

Answer: _____ pupils [1]

(ii) How many **more** pupils prefer **Cats** to **Fish**?

Answer: _____ more pupils [1]

(ii) **Twice** as many pupils prefer _____ to _____ . [1]

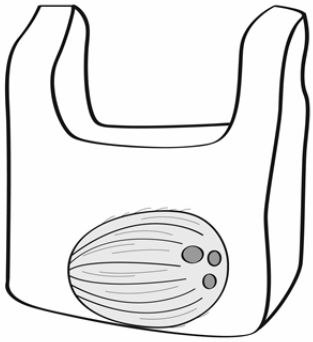
(b) Of the pupils who prefer **Fish**, 91 like Goldfish and the rest like Tilapia.
What **fraction** of the **total** number of pupils in the school like Tilapia ?

Answer: _____ [3]

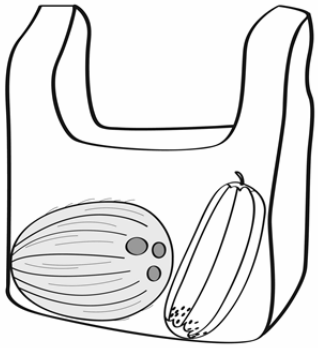
Marks

43. The **total** mass of a bag containing a coconut is 2.6 kg.

When a cucumber is added to the bag, the **total** mass of the bag becomes 3 kg 190 g.



2.6 kg



3 kg 190 g

(i) Find the mass of the **cucumber** in grams.

Answer: _____ g [3]

(ii) Given the coconut is **four times** as heavy as the cucumber, find the mass of the **bag** in grams.

Answer: _____ g [3]

Marks

44. A taxi leaves Curepipe at 10.30 a.m. to go to Port Louis.

(i) It travels at an average speed of 42 km/h and reaches Port Louis at 11.00 a.m. Calculate the **distance** covered by the taxi.

Answer: _____ km [3]

(ii) After spending 20 minutes in Port Louis, the taxi goes back to Curepipe by the **same route**. Its speed is now 7 km/h **less** than when it travelled to Port Louis.

At what **time** does it reach Curepipe?

Answer: _____ [5]

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