



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 2018  
Time: 1 hour 45 minutes

## INSTRUCTIONS TO CANDIDATES

1. Check that this assessment booklet contains 45 questions printed on 17 pages numbered 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18.
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 - 32						
33 - 35						
36 - 38						
39						
40						
41						
42						
43						
44						
45						
Total						
Sig (HOG)						

1. Work out:

$$\begin{array}{r} 231 \\ + 452 \\ \hline \end{array}$$

**Answer:** \_\_\_\_\_

[1]

2. How many sides does a **triangle** have?

**Answer:** \_\_\_\_\_

[1]

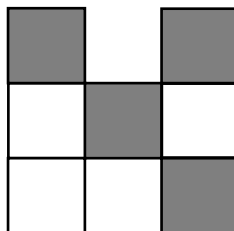
3. Work out:

$$\begin{array}{r} 546 \\ - 205 \\ \hline \end{array}$$

**Answer:** \_\_\_\_\_

[1]

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



**Answer:** \_\_\_\_\_

[1]

5. Work out:

$$\begin{array}{r} 312 \\ \times 3 \\ \hline \end{array}$$

**Answer:** \_\_\_\_\_

[1]

6. Convert 5 kg into g.

**Answer:** \_\_\_\_\_ g

[1]

7. Work out:

$$\begin{array}{r} 4 \overline{) 480} \end{array}$$

**Answer:** \_\_\_\_\_

[1]

8. Reduce  $\frac{12}{18}$  to its lowest terms.

**Answer:** \_\_\_\_\_

[1]

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

In words	In figures
<b>Example:</b> Five hundred and thirty eight	538
(a) Two thousand one hundred and twenty	_____
(b) _____	749

[2]

10. Work out:  $\frac{5}{9} + \frac{2}{9}$

**Answer:** \_\_\_\_\_

[1]

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

30 , 25 , \_\_\_\_\_ , 15 , 10

[1]

12. Find the **value** of  $4^2$ .

**Answer:** \_\_\_\_\_

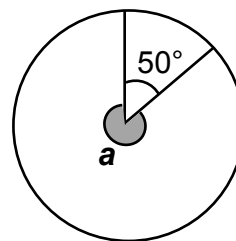
[1]

13. What is the Least Common Multiple (**L.C.M.**) of 8 and 10?

**Answer:** \_\_\_\_\_

[2]

14. Calculate angle **a**.



**Answer:** \_\_\_\_\_ °

[2]

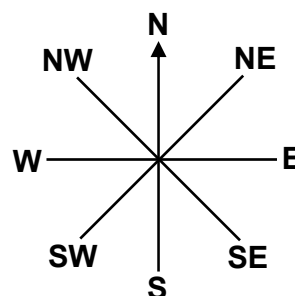
15. Circle the **prime** number in the list below.

17 , 21 , 25 , 27 , 36

[1]

16. Tania is facing **North**.

What direction will she face after making  $\frac{1}{4}$  turn **clockwise**?



**Answer:** \_\_\_\_\_

[1]

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

$$6 + 2 =$$

**A**

8

**C**

10

**B**

12

**D**

14

17.  $(5 \times 10) + (3 \times 1000) + (8 \times 1) + (4 \times 100) =$

**A** 5384

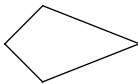
**B** 5348

**C** 3458

**D** 3548

18. Which one of the following quadrilaterals has **only one** line of symmetry?

**A**



**C**



**B**



**D**



19. A jug contains 1.25 L of water.  
How **many** such jugs of water are needed to fill a container of capacity 125 L completely?

**A** 10

**B** 100

**C** 1 000

**D** 10 000

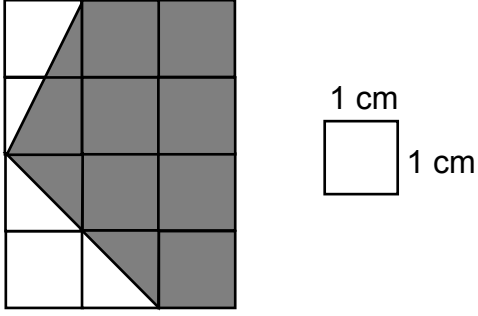



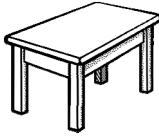
20. A shopkeeper buys an egg for Rs 4.50.  
At what price must he sell it to make a **profit** of Rs 1.75?

**A** Rs 2.75

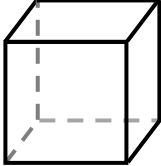
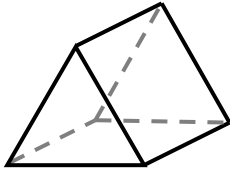
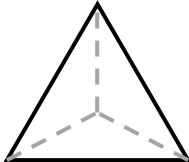
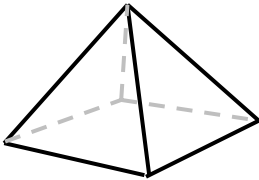
**B** Rs 3.75

**C** Rs 5.25

**D** Rs 6.25

<p>21. Which one of the following is a <b>reflex</b> angle?</p> <p><b>A</b> <math>72^\circ</math>  <b>B</b> <math>135^\circ</math>  <b>C</b> <math>180^\circ</math>  <b>D</b> <math>234^\circ</math></p>	<p>22. <math>\frac{3}{20}</math> expressed as a <b>decimal</b> is</p> <p><b>A</b> 0.03  <b>B</b> 0.15  <b>C</b> 0.30  <b>D</b> 0.75</p>
<p>23. What is the Highest Common Factor (<b>H.C.F.</b>) of 28 and 42?</p> <p><b>A</b> 2  <b>B</b> 7  <b>C</b> 14  <b>D</b> 84</p>	<p>24. The value of 2 in 45.12 is</p> <p><b>A</b> 2 hundredths  <b>B</b> 2 tenths  <b>C</b> 2 units  <b>D</b> 2 tens</p>
<p>25. The <b>area</b> of the shaded region below is</p>  <p><b>A</b> <math>8 \text{ cm}^2</math>  <b>B</b> <math>9 \text{ cm}^2</math>  <b>C</b> <math>10 \text{ cm}^2</math>  <b>D</b> <math>11 \text{ cm}^2</math></p>	<p>26. Which one of the following items has its mass usually measured in <b>tonnes</b>?</p> <p><b>A</b> Aeroplane   <b>B</b> Pencil   <b>C</b> Apple   <b>D</b> Table </p>
<p>27. Which one of the following is a <b>common</b> year?</p> <p><b>A</b> 2008  <b>B</b> 2012  <b>C</b> 2018  <b>D</b> 2020</p>	<p>28. 40 marbles are shared in the ratio <b>2 : 3</b>. The <b>smallest</b> share contains</p> <p><b>A</b> 8 marbles  <b>B</b> 16 marbles  <b>C</b> 20 marbles  <b>D</b> 24 marbles</p>

29. The table below shows four 3-D shapes.  
Fill in the blanks in the table.  
An example has been done for you.

3-D shapes	Properties
<p><b>Example:</b></p>  <p>Cube</p>	<p>Number of <b>faces</b> : 6</p> <p>Number of <b>edges</b> : 12</p> <p>Number of <b>vertices</b> : 8</p>
<p>(a)</p>  <p>Triangular prism</p>	<p>Number of <b>faces</b> : .....</p>
<p>(b)</p>  <p>Triangular-based pyramid</p>	<p>Number of <b>edges</b> : .....</p>
<p>(c)</p>  <p>Square-based pyramid</p>	<p>Number of <b>vertices</b> : .....</p>

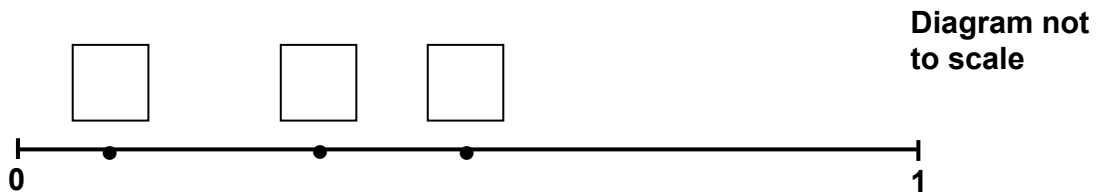
[3]

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

Time on 24-hr clock	Time on 12-hr clock	Time in words
<b>Example:</b> 02 30	2.30 a.m.	Half past two in the morning.
18 15	_____	_____

[2]

31. The dots on the number line below show the positions of **three** fractions between 0 and 1.



(a) Fill in each box above with the **correct** fraction from the following list:

$$\frac{1}{2}, \quad \frac{1}{10}, \quad \frac{1}{3}$$

[1]

(b) Explain why you decided to place the fractions in the positions above.

.....  
 .....

[1]

32. Work out:  $\frac{3}{5} \div \frac{5}{8}$

**Answer:** \_\_\_\_\_

[2]

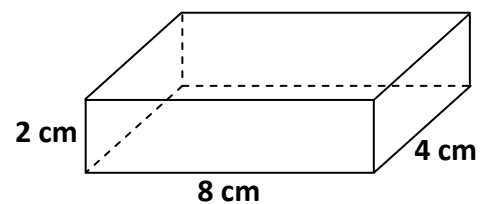


33. Find the **average** of 76, 121 and 211.

Answer: \_\_\_\_\_

[3]

34. (i) A **cuboid** has length 8 cm, width 4 cm and height 2 cm.  
Find the **volume** of the cuboid.



Answer: \_\_\_\_\_  $\text{cm}^3$

[2]

- (ii) A **cube** has the **same** volume as the cuboid in **part (i)**.  
Find the **length** of one side of the cube.

Answer: \_\_\_\_\_ cm

[1]

35. Josh knows that

$$\boxed{385} \times \boxed{439} = \boxed{169\,015}$$

**Without doing any calculation**, help Josh by writing down the missing numbers in the empty boxes below.

(a)  $\boxed{169\,015} \div \boxed{385} = \boxed{\phantom{000000}}$

(b)  $\boxed{38.5} \times \boxed{4.39} = \boxed{\phantom{000000}}$

(c)  $\boxed{385} \times \boxed{\phantom{000000}} = \boxed{169\,015} - \boxed{385}$

[3]

36. A jacket costs Rs 3 600.  
The price of the jacket is **increased** by 12%.  
Calculate the **new price** of the jacket.

Answer: Rs \_\_\_\_\_

[3]

37. A **rectangular** sheet of paper has length 17 cm and width 12 cm.  
A square piece is cut out of the sheet of paper, and the shape below is obtained.

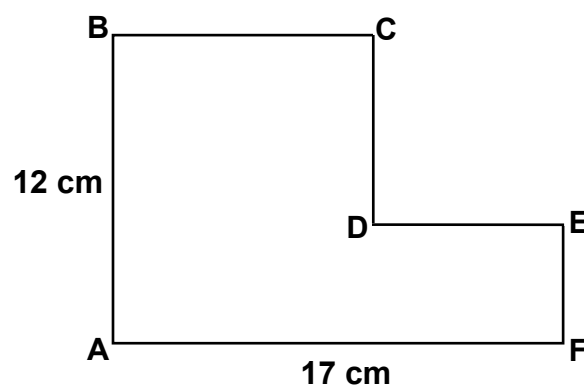


Diagram not  
to scale

- (i) Find the **value** of

Length of **BC** + Length of **DE** = \_\_\_\_\_ cm

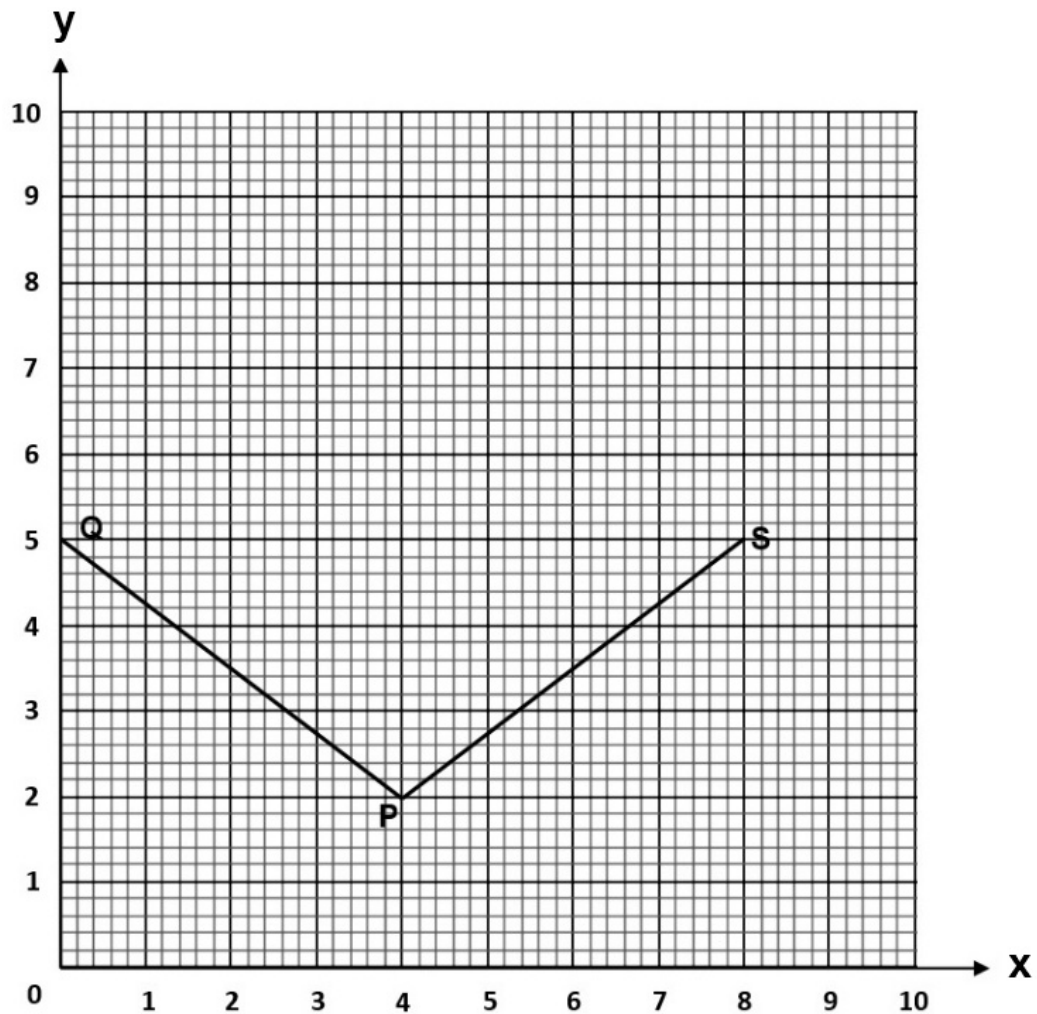
[1]

- (ii) Find the **perimeter** of the shape **ABCDEF**.

Answer: \_\_\_\_\_ cm

[2]

38. **PQRS** is a **rhombus** with **P**(4,2), **Q**(0,5) and **S**(8,5) plotted on the graph below.



- (a) Point **R** is not shown on the graph above.

**Mark** point **R** on the graph and write its coordinates.

Coordinates of **R**: ( \_\_\_\_\_ , \_\_\_\_\_ )

[2]

- (b) The **lines of symmetry** of rhombus **PQRS** meet at point **T**.  
What are the coordinates of **T**?

Coordinates of **T**: ( \_\_\_\_\_ , \_\_\_\_\_ )

[1]

39. Raj purchased some items from a store.  
When Raj returned home, he saw that his receipt was torn.  
Study the receipt carefully and answer the questions below.

<b>Rainbow Store</b>		
Curepipe Square Tel: 53541222		
<b><u>Cash Sale Receipt</u></b>		
Name: Raj		Date: 10.9.2017
Quantity	Item	Price (Rs)
2 boxes	Milk powder	305.00
1 litre	Oil	54.00
3 packets	Chocolate biscuits	36.75
	<b>Total</b>	

- (a) What is the price of **one** packet of chocolate biscuits?

**Answer: Rs** \_\_\_\_\_

[2]

- (b) What is the **total** cost of all the items bought by Raj?

**Answer: Rs** \_\_\_\_\_

[2]

- (c) Raj paid his bill with a **one-thousand** rupee note.  
How much **change** did he receive?

**Answer: Rs** \_\_\_\_\_

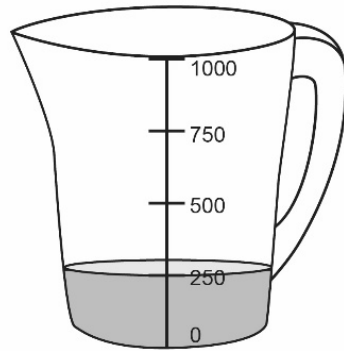
[2]

40. A jug has a capacity of **one litre**.

It contains 250 mL of orange juice.

480 mL of water are poured into the jug.

**Three** glasses containing equal amounts of apple juice are then poured into the jug.  
The jug is now full.



**Diagram not  
to scale**

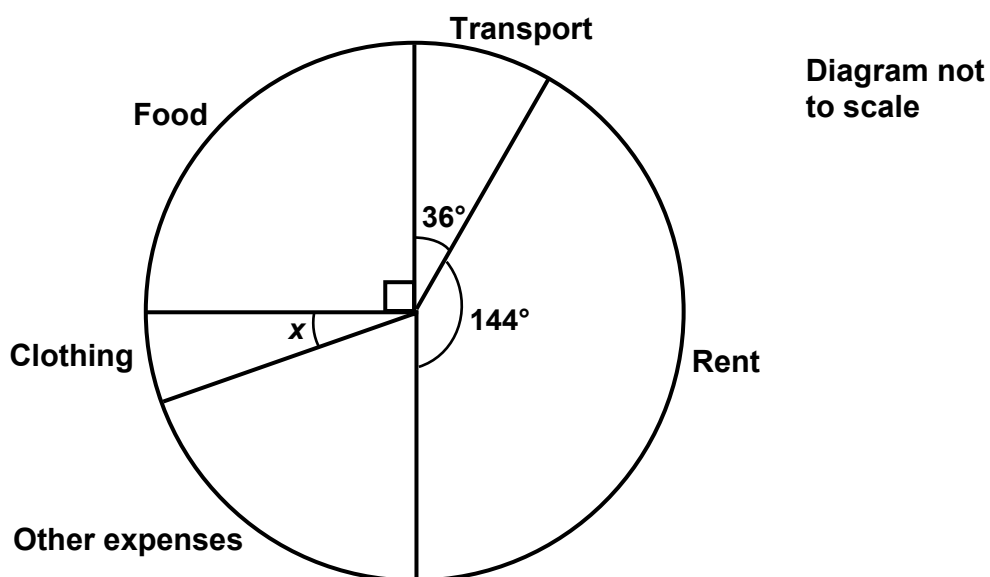


Find the **amount** of apple juice contained in each glass.

**Answer:** \_\_\_\_\_ mL

[4]

41. The pie chart below shows how Ben spent his money during a particular month.



- (a) Given that Ben spent Rs 8 000 on **Food**, calculate the **total** amount of money he spent in that month.

Answer: Rs \_\_\_\_\_

[3]

- (b) Ben spent **twice** as much on **Transport** as on **Clothing**. Calculate angle  $x$ .

Answer: \_\_\_\_\_°

[2]

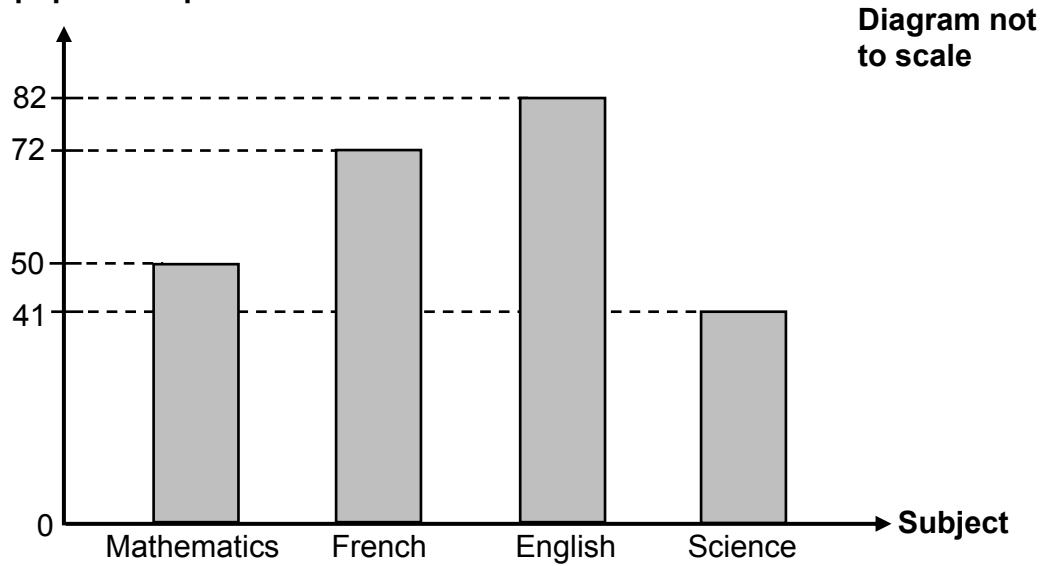
- (c) How much money did Ben spend on **Rent**?

Answer: Rs \_\_\_\_\_

[2]

42. The bar chart below shows the number of Grade 6 pupils who passed in Mathematics, French, English and Science.

**No. of pupils who passed**



- (a) Fill in the blank in the sentence below.

The number of pupils who passed in ..... is **half** the number of pupils who passed in **English**.

[1]

- (b) How many **more** pupils passed in French than in Mathematics?

**Answer:** \_\_\_\_\_ pupils

[2]

- (c) All Grade 6 pupils took part in all four examinations.

There were 16 pupils who **failed** in French.

How many pupils **failed** in Science?

**Answer:** \_\_\_\_\_ pupils

[3]

43. Kevin wants to buy soft drinks.

The soft drinks are sold in packs of 6 cans and packs of 8 cans, as shown below.



**1 pack of 6 cans costs Rs 145**



**1 pack of 8 cans costs Rs 197**

Find the **lowest** price at which Kevin can buy **24 cans** of soft drink.

**Answer: Rs** \_\_\_\_\_

**[5]**



44. Axel starts running from his home at 9.25 a.m.

- (i) He runs a distance of 24 km in 2 hours to reach a park.  
Find his **average speed**.

**Answer:** \_\_\_\_\_ km / h

[2]

- (ii) He spends 30 minutes in the park **before** running back home.  
At what time does Axel **start** running back home?

**Answer:** \_\_\_\_\_

[2]

- (iii) He runs back home at an average speed of 10 km/h, covering the **same distance** as in **part (i)**.

Find the **time** at which Axel reaches home.

**Answer:** \_\_\_\_\_

[4]

45. Sarah has Rs 450. She uses Rs 180 to buy 9 pencils and 7 pens.

Each pen costs **three times** as much as a pencil.

(i) Find the cost of **one** pen.

**Answer: Rs \_\_\_\_\_**

[3]

(ii) How many **pens** could Sarah buy with the amount of money **remaining**?

**Answer: \_\_\_\_\_ pens**

[3]

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