

RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 1) PRIMARY 6

Name:	() ·
Form Class: P6	Math Teacher:
Date: 14 May 2019	Duration ; 1 hour
Your Paper 1 Score (Out of 45 marks)	
Your Paper 2 Score (Out of 55 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

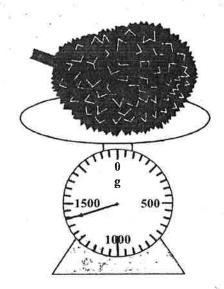
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. NO calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Questions 11 to-15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale. [20 marks]

- 1. What does the digit 7 in 50.763 stand for?
 - (1) 7 ones
 - (2) 7 tenths
 - (3) 7 hundredths
 - (4) 7 thousandths
- 2. What is eight million and forty thousand in numerals?
 - (1) 804 000
 - (2) 840 000
 - (3) 8 040 000
 - (4) 8 400 000
- John has \$160. He has \$100 more than Kim. Express the amount of money John has as a fraction of the amount of money Kim has.
 - (1) $\frac{3}{8}$
 - (2) $\frac{8}{13}$
 - (3) $\frac{8}{5}$
 - (4) $\frac{8}{3}$

- 4. Terry has 7³/₄ times as many marbles as Sam. What is the ratio of Terry's number of marbles to Sam's number of marbles?
 - (1) 4:25
 - (2) 4:31
 - (3) 25:4
 - (4) 31:4
- 5. Find the value of $3 \frac{2y}{5}$ when y = 4.
 - (1) $\frac{2}{5}$
 - (2) $1\frac{2}{5}$
 - (3) $1\frac{3}{5}$
 - (4) $2\frac{3}{5}$

6. What is the mass of the durian?



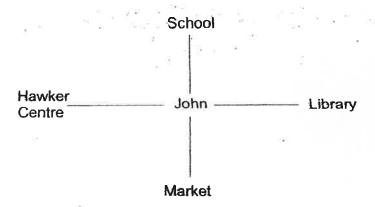
- (1) 1.3 kg
- (2) 1.4 kg
- (3) 400 kg
- (4) 1300 kg

7. Arrange the following fractions beginning with the smallest.

5 8	$1\frac{1}{2}$	2 5	
Ū	_	0	

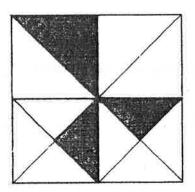
- (1) $1\frac{1}{2}$, $\frac{5}{8}$, $\frac{2}{5}$
- (2) $\frac{5}{8}$, $\frac{2}{5}$, $1\frac{2}{5}$
- (3) $\frac{2}{5}$, $\frac{5}{8}$, $1\frac{1}{2}$
- (4) $\frac{5}{8}$, $1\frac{1}{2}$, $\frac{2}{5}$

8.



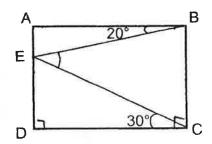
John was facing the school. He made a 90° clockwise turn followed by a 270° anticlockwise turn. Where was he facing in the end?

- (1) School
- (2) Library
- (3) Market
- (4) Hawker Centre
- 9. What percentage of the square is shaded?



- (1) 25%
- (2) 37.5%
- (3) 50%
- (4) 75%

- 10. 23 pupils from Class 5A and 37 pupils from Class 5B went for a baking workshop. The total cost of the workshop for both classes was \$900.
 What was the cost of the workshop for each pupil?
 - (1) \$15
 - (2) \$18
 - (3) \$150
 - (4) \$180
- 11. ABCD is a rectangle. Find ∠BEC.



- (1) 40°
- (2) 50°
- (3) 60°
- (4) 70°
- 12. Devi is x years old. She is 3 times as old as her brother. How old is her brother in 2 years' time?
 - (1) 3x + 2
 - (2) 3x 2
 - (3) $\frac{x}{3} + 2$
 - (4) $\frac{x}{3} 2$

- 13. A fishmonger had 12.3 kg of prawns and 32.08 kg of fish in the morning. He had a total of 8.205 kg of prawns and fish left at the end of the day. How much prawns and fish did he sell that day?
 - (1) 36.175 kg
 - (2) 36.85 kg
 - (3) 52.585 kg
 - (4) 53.35 kg
- 14. The area of the shaded part is 20% of the area of the square. The area of the unshaded part is 40 cm². Find the area of the square.



- (1) 10 cm²
- (2) 50 cm²
- (3) 160 cm²
- (4) 200 cm²
- 15. The price of the microwave oven was $\frac{1}{8}$ of the price of the refrigerator. During a sale, a 25% discount was given for the refrigerator. What was the ratio of the price of the microwave oven to that of the refrigerator during the sale?
 - (1) 1:4
 - (2) 1:6
 - (3) 3:4
 - (4) 4 1

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. [5 marks]

16. Evaluate $54 + (28 - 10) \div 6$

Ans:			
	and a second contract of the second	 	

17. What is the average amount of savings the children have?

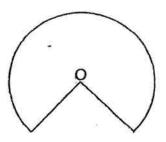
Name	Savings (\$)
Joshua	13
Emma	9
Belle	0
Helmi	14

Ans: \$_____

18.	Round 13.952 to the nearest tenth.		, i,
		ē	
. Na	-		
		e 8	
		Ans:	
		,	*/
19.	Starting from 6 p.m., a bus leaves the inte Mr Kum reaches the interchange at 6.27 can board the bus? Give your answer in 2	p.m. What is the earl	of 6 minutes. est time he
			N
	e	Ans:	
20.	Siti bought 3 dozen pens. She gave awa	$y \frac{3}{4}$ of the pens. How	many pens
	did she give away?		
	3		
		Ans:	
		. 11.0	

ovide estío	d for each question a	and write your answe	ur working clearly in the space rs in the spaces provided. For in the units stated. All diagrams a [20 marks]
21.		mugs. If he puts the	em in boxes of 6 or 8, there will be nugs Mr Wong has?
	*		2
		2.08	
	g RC		
	•		
			Ans:
22.	Bala bought $\frac{3}{4}$ kg of flour to bake some	f flour. He gave away cookies. How much	$\sqrt{\frac{1}{8}}$ kg of flour and used $\frac{1}{3}$ kg of flour had he left?

23. The figure shows a three-quarter circle of radius 7 cm. O is the centre of the circle. Find the area of the figure. Take $\pi = \frac{22}{7}$

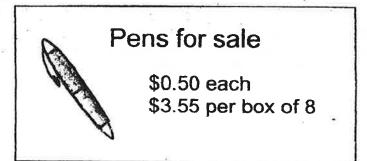


Ans: cm²

24. The length of a ribbon is 1 m 20 cm. A florist makes 3 cuts to it to get pieces of ribbons of equal length. How long is each piece of ribbon?

Ans:_____cm

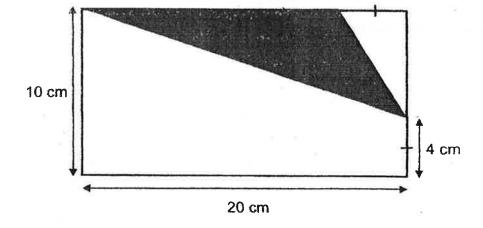
25 .	Kelly cycled from the school to the library at 10 km/h at 2 p.m. At the same time, Yanie cycled from the library to the school at 8 km/h. The distance between the school and the library was 27 km. What time did they meet each other? Give your answer in 24-hour clock.
	52
	No.
	Ans:
26.	Terry had $\frac{9}{10}$ ℓ of fruit juice. He poured $\frac{1}{42}$ ℓ of fruit juice into 1 cup.
	How many cups of fruit juice could he get at most?
	w.
	Ans:



Mrs Tham wanted to buy 42 pens. What was the least amount of money that Mrs Tham needed to pay for the pens?

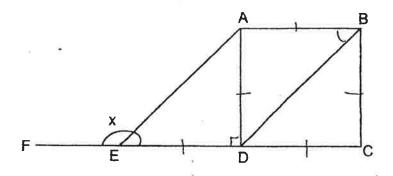
Áns:	\$	
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28. The figure is made up of a rectangle and a triangle. Find the total area of the unshaded parts.



Ans: _____ cm²

29. ABCD is a square and ABDE is a parallelogram. FC is a straight line. Find $\angle x$.



Ans:

30. Mrs Tan always saved 30% of her salary. In June, her salary increased by 10% and she saved \$120 more. What was her salary in June?

Ans: \$

End of Paper
© Please check your work carefully ©



RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 2) PRIMARY 6

Name:	()
Form class: P6	Math Teacher:
Date: 14 May 2019	Duration: 1 h 30 min

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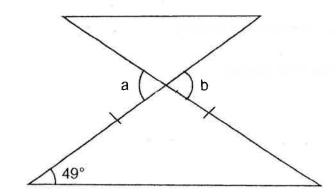
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

[10 marks]

- 1. Yanni had \$w. She spent \$9 on some stationery. Then she divided the remaining money among her 2 sisters.
 - a) Express the amount of money each sister received in terms of w.
 - b) If each sister received \$35, how much did Yanni have?

2. Find the sum of $\angle a$ and $\angle b$.



Ans: ______° [2]

					u	9	111 A -
3.	Devi is 8 year 5 : 7+What is	rs older that the age of	n Jerry. In 4 y Jerry now?	years' time,	the ratio of	their age w	ill be
							*
	н,						
					Ans :		[2]
							1.7
	71		obildrop is 21	5 ka			
4,:	The total ma	ss of 2 child	children is 25 dren is 54 kg	ي مي. . What is th	e average	mass of the	other
	2 children?						
					Ans :		kg [2]
					(

5. A box contained some blue and red marbles. $\frac{1}{4}$ of the marbles were blue.

Jane added 20 green marbles into the box.

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a $(\sqrt{})$ to indicate your answer.

Statement	True	False	Impossible to tell
a) After adding the green marbles, the fraction of the marbles that were blue was less than $\frac{1}{4}$.			
b) The fraction of marbles that were green was greater than the fraction of marbles that were red.		100 pg - 100	

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in the brackets [] at the end of each question or part-question.

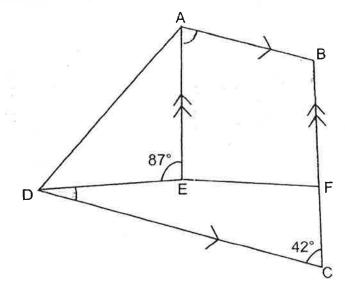
All diagrams are not drawn to scale.

[45 marks]

6. Ming Yi saved a total of \$70 in 7 days. From the second day onwards, she saved \$2 more than the previous day. How much did she save on the 4th day?

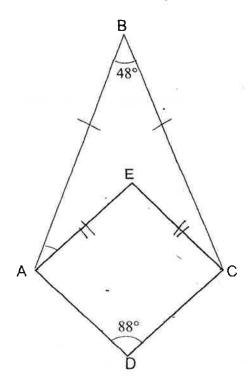
Ans :	[3]	ı
/ NI 10 ·	ι	J

7. ABCD is a trapezium. EA // FB . Find ∠EDC.



Ans : _____[3]

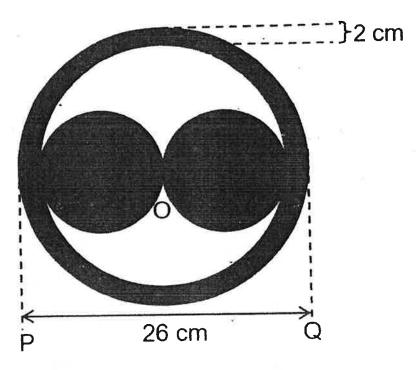
8. AECD is a rhombus. AB = BC. Find ∠BAE.



Ans : _____[3]

9. The figure is made up of 4 circles. The length of PQ is 26 cm. O is the centre of the biggest circle. The 2 inner shaded circles meet at O. The width of the shaded ring is 2 cm. Find the total area of the shaded parts.

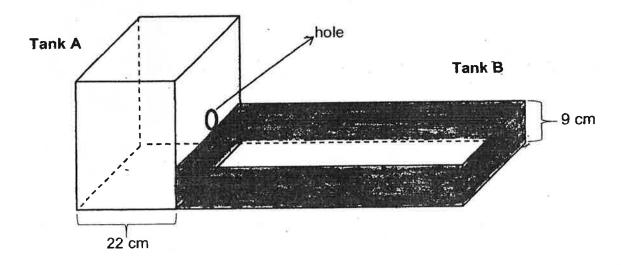
Take $\pi = 3.14$



Ans :_____[4]

	*0					•
	#1		20	2		
			221			
2			1		- 31	
4						
*						
×			Ans: _			[3

- 11. The figure shows Tank A and Tank B placed together. Both the tanks were empty. Tank A had a breadth of 22 cm and its length was twice that of its breadth. When some water was poured into Tank A, some of the water flowed into Tank B through the hole which was just above Tank B. In the end, Tank B was ²/₃ filled and there was a total of 10 230 ml of water in the two tanks.
 - (a) What was the volume of water in Tank B?
 - (b) What was the capacity of Tank B?



Ans: (a) _____[2] (b) ____[2]

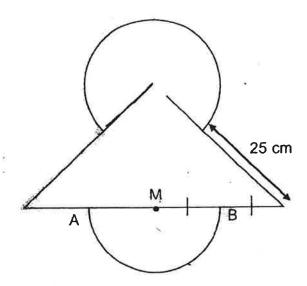
12. Mrs Tan bought a handbag in France. She wanted to sell the bag for \$3480. After some bargaining, she sold the handbag to Mrs Lee at a 25% discount of the selling price. The amount she received from Mrs Lee was 20% more than what she paid for the handbag. How much did she pay for the handbag?



Ans:	4

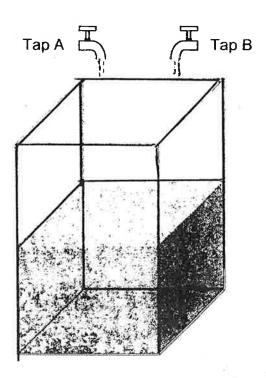
13. The figure shows an isosceles triangle, a three-quarter circle and a semicircle. The three-quarter circle and the semicircle have a radius of 14 cm each. M is the midpoint of AB.

What is the perimeter of the figure? Give your answer in terms of π .



Anc.	[3]
Ans:	[V]

- 14. A tank is filled with water from 2 taps. Tap A alone can fill the tank completelyin 10 minutes. Tap B alone can fill the tank twice as fast as Tap A. Both taps are turned on at the same time.
 - (a) How long does it take for Tap B alone to fill the tank completely?
 - (b) How long does it take for both taps to fill the tank completely?



Ans:	(a)	 	 _[1]
Ans:	(a)	 	 _[7]

	e N	1 2 2	* #			
15.	shoes was shoes wer was \$12.2 shoes. Ho	s sold at \$45. E e sold, the amo 10 more than to w much money	shoes produced in ach pair of male so bunt of money coll he amount of mor was collected fro a nearest hundred	shoes was sold a lected from the s ney collected from the sale of the	at \$39, when all sale of female st m the sale of ma	1062
7			N x		¥	9
						¥1
			Ë			
				Ane:		[4]

- 16. Mrs Tan baked some muffins. $\frac{3}{5}$ of the muffins were banana muffins and the rest were walnut muffins. Her family ate $\frac{3}{4}$ of the banana muffins and she donated 252 walnut muffins to an old folks' home. Then she had $\frac{1}{4}$ of the muffins left.
 - (a) What fraction of the muffins did her family eat? Give your answer in the simplest form.
 - (b) How many muffins did she bake altogether?

Ans :	(a)	[2
	(b)	[3

17. The table shows the cost of fruits in Stall A.

Food	Price
Oranges	4 for \$3
Apples	3 for \$2
French Melons	\$9 each

- (a) Mr Tan bought an equal number of oranges and apples. What was the ratio of the amount he spent on the oranges to the amount he spent on the apples? Give your answer in the simplest form.
- (b) Mrs Lee bought some fruits. The ratio of the number of oranges to the number of apples to the number of French melons is 8:9:3. She spent \$936 altogether. How many fruits did she buy altogether?

Ans: (a)	[2]
(b)	[3]

End of Paper Please check your work carefully ©

ANSWER KEY



YEAR

: 2019

LEVEL

: PRIMARY 6

SCHOOL: RAFFLES GIRLS' PRIMARY SCHOOL

SUBJECT: MATHEMATICS

TERM

: SA 1

PAPER 1

Q1	2	Q2	3	Q3	4	Q4	4	Q5	2
Q6	2	Q 7	3	Q8	3	Q9	1	Q10	1
Q11	2	Q12	3	Q13	1	Q14	2	Q15	2

Q16) 57

Q17) \$9

Q18) 14.0

Q19) 1830

Q20) 27 pens

Q21) Lowest common multiplier: 3, 4

$$2 \times 3 \times 4 = 24$$

$$24 + 3 = 27$$
 mugs

Q22)
$$\frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8}$$
$$= \frac{5}{8}$$

$$\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24}$$

$$=\frac{7}{24}$$

Ans: $\frac{7}{24}$ kg

Q23)
$$7 \times 7 \times \frac{22}{7} \times \frac{3}{4} = 7 \times 11 \times \frac{3}{2}$$

= $77 \times \frac{3}{2}$.
= $\frac{231}{2}$
= 115.5 cm^2



Q24)
$$1m \ 20cm = 120cm$$

 $120 \div 4 = 30cm$

Q25)
$$10 + 8 = 18$$

 $27 \div 18 = 1.5$
 $2pm + 1.5hours = 1530$

Q26)
$$\frac{9}{10} \div \frac{1}{12} = \frac{9}{10} \times \frac{12}{1}$$

= $\frac{54}{5}$
= $10\frac{4}{5}$

Ans: 10 cups

Q27)
$$42 \div 8 = 5 \text{ R2}$$

 $5 \times 3.55 = 17.75$
 $2 \times 0.5 = 1$
 $17.75 + 1 = \$18.75$

Q28)
$$10-4=6$$

 $20-4=16$
 $\frac{1}{2} \times 16 \times 6 = 8 \times 6$
 $= 48$
 $10 \times 20 = 200$
 $200-48 = 152 \text{cm}^2$



Q29)
$$180 - 90 = 90$$

 $90 \div 2 = 45$
 $180 - 45 = 135$

Q30)
$$110 \div 10 \times 3 = 33$$

 $33 - 30 = 3$
 $3u = 120$
 $1u = 120 \div 3$
 $= 40$
 $110u = 40 \times 110$
 $= 4400

PAPER 2

Q1a)
$$(w-9) \div 2 = \frac{(w-9)}{2}$$

Ans:
$$\$\frac{(w-9)}{2}$$

Q1b)
$$35 = \frac{70}{2}$$

 $w - 9 = 70$
 $w = 70 + 9$
 $= 79

Q2)
$$49 \cdot x \cdot 2 = 98$$

 $< x = 180 - 98$
 $= 82$
 $< a = 180 - 82$
 $= 98$
 $< a + < b = 98 \times 2$
 $= 196^{\circ}$

Q3)
$$2u = 8$$

 $1u = 8 \div 2$
 $= 4$
 $5u = 4 \times 5$
 $= 20$
 $20 - 4 = 16$ years old

Q4)
$$25 \times 4 = 100$$

 $100 - 54 = 46$
 $46 \div 2 = 23 \text{ kg}$

Q5a) True

Q5b) Impossible to tell.

Q6)
$$1+2+3+4+5+6=21$$

 $21 \times 2=42$
 $70-42=28$
 $28 \div 7=4$
 $4+2+2+2=\underline{\$10}$

$$Q7) < ABC = 180 - 42$$

= 138



$$<$$
EAB = $180 - 138$
= 42
 $180 - 87 = 93$
 $180 - 42 - 93 = 45$ \circ

Q8)
$$180 - 88 = 92 (\$180 - 48 = 132 \(
 \$132 - 92 = 40 \(
 \$40 \div 2 = 20 \circ\$\$\$$$



Q9)
$$26-2-2=22$$

 $22 \div 2=11$
 $11 \div 2=5.5$
 $5.5 \times 5.5 \times 3.14 \times 2=189.97$
 $11 \times 11 \times 3.14=379.94$
 $26 \div 2=13$
 $13 \times 13 \times 3.14=530.66$
 $530.66-379.94=150.72$
 $189.97+150.72=340.69 \text{ cm}^2$

Q10)
$$0.45 \times 163 = 73.35$$

 $95.35 - 73.35 = 22$
 $163 \div 35 = 4 \text{ R23}$
 $22 \div 4 = \$5.50$

Q11a)
$$22 \times 2 = 44$$

 $22 \times 44 \times 9 = 8712$
 $10230 - 8712 = \underline{1518cm}^{3}$

Q11b)
$$1518 \div 2 \times 3 = 2277 \text{cm}^3$$

Q12)
$$100\% \rightarrow 3480$$

 $25\% \rightarrow 3480 \div 4 = 870$
 $75\% \rightarrow 870 \times 3 = 2610$
 $120\% \rightarrow 2610$
 $1\% \rightarrow 2610 \div 120 = 21.75$
 $100\% \rightarrow 21.75 \times 100 = 2175

Q13)
$$25 \times 2 = 50$$

 $14 \times 2 = 28$
 $\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$
 $\frac{5}{4} \times 14 \times 2 \times \pi = 35\pi$
 $50 + 28 + 35\pi = (78 + 35\pi) \text{ cm}$

Q14a)
$$10 \div 2 = \underline{5minutes}$$

Q14b) In 1 minute: A
$$\Rightarrow \frac{1}{10}$$
B $\Rightarrow \frac{2}{10}$

$$A + B \Rightarrow \frac{3}{10}$$
$$1 \div \frac{3}{10} = 3\frac{1}{3}$$

Ans: $3\frac{1}{3}$ minutes



Q15)
$$45 - 39 = 6$$

 $6 \times (850 \div 2) = 2550$
 $12 \ 210 - 2550 = 9660$
 $45 + 39 = 84$
 $9660 \div 84 = 115$
 $850 \div 2 = 425$
 $425 - 115 = 310$
 $310 \times 39 = 12 \ 090$
 $\approx $12 \ 100$

Q16a)
$$\frac{3}{5}$$
 x $\frac{3}{4} = \frac{9}{20}$

Ans: $\frac{9}{20}$ of the muffins



Q16b) Banana:
$$\frac{3}{5}$$

$$\frac{9}{20}$$
 eaten, $\frac{3}{20}$ left

Walnut:
$$\frac{2}{5}$$

252 old folks home,
$$\frac{5}{20} - \frac{3}{20} = \frac{1}{10}$$
 left

$$\frac{2}{5} - \frac{1}{10} = \frac{3}{10} \Rightarrow 252$$

$$\frac{1}{10} \rightarrow 252 \div 3 = 84$$

$$\frac{10}{10}$$
 > 84 x 10 = 840 muffins

Q17a)
$$12 \div 4 = 3$$

 $3 \times 3 = 9$
 $12 \div 3 = 4$

$$4 \times 2 = 8$$

Orange: Apples

Ans: 9 : 8

Q17b) Orange: Apples: French melon

9:8:3

$$8 \div 4 = 2$$

$$2 \times 3 = 6$$

$$9 \div 3 = 3$$

$$3 \times 2 = 6$$

$$3 \times 9 = 27$$

$$6+6+27=39$$

$$936 \div 39 = 24$$

$$8 + 9 + 3 = 20$$

 $20 \times 24 = 480$ fruits



END