

NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT - 2020 PRIMARY 6

MATHEMATICS Paper (

Total Time for Paper 2: 1 hour 30 minutes

INSTRUCTION TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. The use of an approved calculator is expected, where appropriate.

Marks Obtained

Total	Max Mark
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Name :		, .	2
	The second		

Class : 6_____

Date : 17 June 2020

Parent's Signature :____

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		Primary School athematics	
Name:	()	Marks: 45
Class: P6			Date:

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 and shade your answer (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1. Round 372 851 to the nearest hundred.

- (1) 372 800
- (2) 372 850
- (3) 372 900
- (4) 373 000

2. What is the value of $24 + 16 \div (5-1) \times 2$?

- (1) 5
- (2) 20
- (3) 26
- (4) 32

3. Which of the following are common factors of 24 and 30?

- (1) 2 and 3
- (2) 3 and 5
- (3) 4 and 5
- (4) 4 and 6

- 4. Find the value of $\frac{5}{6} \times 20$.
 - (1) $\frac{1}{24}$
 - (2) $\frac{3}{50}$
 - (3) $16\frac{2}{3}$
 - (4) 24
- 5. Which of the following is common multiple of 4 and 9?

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- (1) 16
- (2) 18
- (3) 32
- (4) 36
- 6. Simplify the following algebraic expression.

$$12p + 7 - 5p - 3$$

- (1) 17p + 10
- (2) 17*p* + 4
- (3) 7*p* +10
- (4) 7p+4

7. In the figure below, not drawn to scale, BCD is a straight line and AD = CD. What is the area of triangle ABC?



- (1) 17.5 cm²
- (2) 30 cm²
- (3) 32.5 cm²
- (4) 78 cm²
- 8. Betty had some fruits. $\frac{5}{9}$ of the fruits were apples and the rest were oranges. $\frac{3}{10}$ of the apples were green apples and the rest were red apples. What fraction of the fruits were red apples?
 - (1) $\frac{2}{15}$
 - (2) $\frac{3}{18}$
 - (3) $\frac{14}{45}$
 - (4) $\frac{7}{18}$

In the square grid below, a school is located at south-west of point T.
 At which point is the school located?



- (1) P
- (2) Q
- (3) R
- (4) S
- 10. Which one of the following is not a symmetric figure?



11. A class of students was asked to sell concert tickets.

The table below shows the number of tickets sold by the students in the class.

Number of students	Number of tickets sold by each student
9	0
11	2
?	3
2	5

The students sold a total of 56 tickets. How many students sold only 3 tickets each?

- (1) 32
- (2) 24
- (3) 8
- (4) 5

12. Which of the following lines is the line of symmetry of the trapezium?



- (1) AB
- (2) CD
- (3) EF
- (4) GH

13. The line graph below shows the number of cars sold from March to July.



What percentage of the total number of cars sold from March to July was sold in the month of April?

- (1) 15%
- (2) 30%
- (3) 85%
- (4) 200%
- 14. 120 kg of chicken wings were packed into 40 packets equally. What was the mass of each packet of chicken wings?
 - (1) 30 g
 - (2) 300 g
 - (3) 3 g
 - (4) 3 000 g

- 15. Box A contains only 20-cent coins and Box B contains only 50-cent coins. The number of coins in Box A is twice the number of coins in Box B. The amount of money in Box B is \$1.60 more than the amount of money in Box A. How many 20-cent coins are there in Box A?
 - (1) 8

4

- (2) 16
- (3) 32
- (4) 48

16. Find the value of 12 + $\frac{8}{9}$. Leave your answer as a mixed number in its simplest form. Ans :	state	vided. For questions which require unit ed.	9140	Jour an	011010 11	[5 marks]	in this spac
Ans :	16.	Find the value of $12 \div \frac{8}{9}$. Leave your a	answer	as a mix	ed num	ber in its	
17. The table below shows the number of laptops owned by per household in a housing estate. Number of laptops owned by per 0 1 2 3 and more household Number of households 9 53 62 16 How many households owned at least 2 laptops? Ans : 18. Anita started her jog at 17 37. She finished jogging at 18 26. How long did Anita jog?		simplest form.					
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How many households owned at least 2 laptops? Ans :		household	0	1	2	3 and more	
Ans :		Number of households	9	53	62	16	
18. Anita started her jog at 17 37. She finished jogging at 18 26. How long did Anita jog?		How many households owned at least	st 2 lapt	ops?			
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did Anita jog?				Ans :			
did Anita jog?							
	18.		nished j	ogging a	at 18 26.	How long	
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23. There are 6 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.



Subtotal	/ 6
	1

26. The figure below shows Cuboid A. Draw a cuboid with a volume half Do not write that of Cuboid A on the isometric grids provided.





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29. Fatimah, Gretel and Helen shared \$*n*. Fatimah received thrice as much money as Helen. Gretel received \$15 less than Fatimah.

Each of the statements below is either true, false or impossible to tell from the information given. For each statement, put a tick ($\sqrt{}$) to indicate your answer.

Statement	True	False	Not possible to tell
Gretel received more money than Helen.			
Helen received \$ $(\frac{n+15}{7})$.			

30. The list below shows the items Mrs Lim bought. The average cost of the items was \$25. What was the cost for Item A?

Item	Cost
A	\$1
В	\$ 34
С	\$ 8
D	\$ 22



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in this space



NAN HUA PRIMARY SCHOOL NON-WEIGHTED ASSESSMENT – 2020 PRIMARY 6

MATHEMATICS Paper 2

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Marks Obtained

Total	Max Mark
5. ⁸	55

Name : ______.()

Class : 6_____

Date : 17 June 2020

Parent's Signature : _____

Paper 2 (55 marks)

Questions 1 to 5 carry 2 marks each. Show your workings clearly and write your answer in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

1. The figure below shows a 24 cm by 14 cm by 8 cm cuboid. Find the volume of the cuboid.



Ans: _____ cm³

2. Gabby and Helen shared a sum of money in the ratio of 3 : 2. When Gabby gave \$20 to Helen, the ratio of Gabby's amount of money to Helen's amount of money became 4 : 11. How much money did Gabby have at first?

Ans: \$

3. Mr Lai and his 3 children went to a Maze Park. They stayed there from 15 00 to 17 10. The table below shows the charges. How much did Mr Lai pay for the children?

	1 st hour	Every additional $\frac{1}{2}$ hour
Adult	\$12.50 per hour	\$7
Child	\$7.50 per hour	\$4

 Jennis received \$8 for her pocket_money from her parents daily. The following bar graph shows her spending on a certain week.

Ans: \$



What was Jennis' average savings over the 5 days? .

Ans: \$



What is the average number of books read by the boys?

5.

Ans:

Do not write in this space

3

For questions 6 to 17, show your working clearly and write	your answers in the	ĺ.
spaces provided. The number of marks available is shown	in brackets [] at the	1
end of each question or part-question.	(45 marks)	

Do not write in this space

6. Katinah paid \$36 for 30 cupcakes after a 20% discount. How many cupcakes could she have bought with the same amount of money without the discount?

Ans: _____[3]

- 7. In the square grid, AB and BC are drawn. They form 2 sides of a trapezium ABCD.
 - (a) Measure and write down the size of $\angle ABC$.
 - (b) Complete the drawing of the trapezium ABCD such that AB is parallel to CD and line CD is twice as long as line AB. [2]

			\uparrow	K					
		A	1						
 					\backslash	с			
 	+								<u> </u>
 				D			 		

Ans: (a) _____ [1]



 The figure below is made up of 2 square, ABCD and EFGH, and 2 identical semicircles. E, F, G and H are the mid-points of AB, BC, CD and AD respectively. Find the total area of the shaded parts.



11. In a box, the ratio of the number of blue beads to the number of red beads was 5 : 14. The ratio of the number of yellow beads to the number of red beads was 2 : 7.

- (a) Find the ratio of the number of blue beads to the number of yellow beads to the number of red beads.
- (b) After 360 blue beads were removed from the box, ¹/₁₀ of the remaining beads were blue beads. How many more red beads than blue beads were there in the box? in the eva.



12. Mrs Ang gave a bag of marbles to her children. If she gave them 9 more marbles to share among themselves, they would have an average number of 18 marbles. If she gave them 25 more marbles to share among themselves, they would have an average number of 22 marbles. How many children did Mrs Ang have?

Do not write in this space

Ans: _____[3]

Do not write in this space

13. Mr Liang paid \$1788.60 for some boxes of face masks and boxes of alcohol swab. He paid \$1603.80 more for the face masks than the alcohol swab. The number of boxes of face masks he bought was three times as many as the number of boxes of alcohol swab. A box of alcohol swab cost \$21.50 less than a box of face masks. Find the cost of a box of face masks.

Ans: _____[4]

14. Yasmin had 210 kg of grapes. She sold $\frac{3}{7}$ of the grapes on Monday and $\frac{3}{8}$ of the remainder on Tuesday. She packed the remaining grapes into small bags containing $\frac{3}{4}$ kg of grapes. How many small bags of grapes did Yasmin pack?

Ans: _____[4]

The diagram below shows 4 figures formed by shaded and unshaded 15. hexagons.

Do not write in this space

Figure 1 Figure 2

Figure 3





Complete the table below. (a)

Find the number of unshaded hexagons in Figure 15. (b)

The total number of hexagons of a figure is 529. What is the (c) difference between the number of shaded hexagons and the number of unshaded hexagons of that figure?

Figure Number	Total number of hexagons	Total number of shaded hexagons		
1	1	1		
2	4	3		
3	9	6		
4	16	10		
7	(i)	(ii)		



- 16. The figure below is made up of two identical semicircles, 6 identical quadrants and 16 squares. The side of each square is 6 cm.
 - (a) Find the perimeter of the shaded figure.
 - (b) Find the area of the shaded figure.

(Take π = 3.14)





17. The figure below, not drawn to scale, is made up of 2 trapeziums ABCD and ADCE. AB is parallel to DC and AD is parallel to EC. ∠BCD = 86°, ∠CEF = 52° and EF = CE.

Do not write in this space

(a) Find ∠BAF.
 (b) Find ∠ADC.



Ans: (a) _____

(b) _____

[3]

[2]

ANSWER KEY

YEAR: 2020 LEVEL: PRIMARY 6 SCHOOL: NAN HUA SUBJECT: MATH TERM: SA1

Q1	3	Q2	4	Q3	1	Q4	3	Q5	4
Q6	4	Q7	1	Q8	4	Q9	3	Q10	1
Q11	3	Q12	2	Q13	1	Q14	4	Q15	3

C.

0 *'*,

Q16. 13½

Q17.78

Q18. 49min

Q19. ⅓

Q20.
$$\frac{3}{7}$$
, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{2}{3}$

Q21. 108-90=18°

Q22. 110° P



Q24. $6 \times 6 \times 6 = 216 \text{ cm}^3$

Q25. $\frac{14a+11}{3} = \frac{112+11}{3} = 41$

Q26.



Q27. 1:4:3



DEFG is a square Label triangles B and H Area of triangle A= Total Area of B+H Total base of triangle A+B+H=20cm Base of triangle A = 20cm \div 2=10cm Height of triangle A=40cm-20cm=20cm Total area of triangle=2x($\frac{1}{2}$ x 20cmx10cm) =2x100=200 cm2 Area of triangle A= 200 cm2 \div 2 =100cm2

Q29. Not possible to tell True

Q30.\$16

PAPER 2

- Q1. 24cm×14cm×8cm=2688cm³
- Q2. \$36
- Q3. \$58.50
- Q4.\$3
- Q5. 16+9+18+0+12=55 55÷5=11

Q6. 24 cupcakes



a)62°

Q8. 180-110=70 70÷2=35 180-35=145°



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Q14. 1 - \frac{3}{7} = \frac{4}{7}
\frac{4}{7} \times \frac{3}{8} = \frac{3}{14}
1 - \frac{3}{7} = \frac{5}{14} = \frac{5}{14}
210kg×\frac{5}{14}=75kg
 75kg÷¾kg=100 small bags
Q15. a)(i) 49
         (ii)28
       b)105
       c)25
Q16. a)6×2=12cm
         ¼×3.14×12=9.42cm
         9.42cm×10=94.2cm
         94.2cm+12cm=106.2cm
      b)¼×3.14×6×6=28.26
         6×6=36
         36-28.26=7.74
         7.74×4=30.96
         28.26×6=169.56
         36×2=72
         30.96+169.56+72
         =272.52cm<sup>2</sup>
        a)106.2cm
        b)272.52cm<sup>2</sup>
Q17. a)180-86=94
         180-52=128
         128÷2=64
         180-94-64=22
       b)86+64=150
         180-150=30
        a)22°
        b)30°
                                  5
                                ZND
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