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Education Bureau Territory-wide System Assessment 2023 Primary 6 Mathematics

Instructions:

- 1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
- 2. There are 39 questions in this test. Answer all questions.
- 3. Time allowed is 50 minutes.
- 4. Write your answers in this Question-Answer Booklet.
- 5. Do not write in the margins.
- 6. Use of calculators is not allowed.
- 7. Do your rough work on the rough work sheet provided.
- 8. Write your School Code, Class and Class Number in the boxes below.

Instructions for answering questions:

- (a) Multiple choice questions Blacken the circle next to the correct answer with an **HB pencil**. For example:
 - A
 - ОВ
 - ОС
 - O D
- (b) Questions in which you are asked to "Show your working" Write your mathematical expressions, answers and statements/conclusions in the spaces provided. There is NO need to show your rough work.
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Arrange the following numbers from the largest to the 6. smallest. $1\frac{5}{12}$, $\frac{8}{9}$, $\frac{11}{6}$ Answer: , , (Largest) (Smallest) Which of the following numbers has the digit '3' in its 7. thousandths place? A. 73 019 Ο O B. 19.037 O C. 9.3701 O D. 7.0139 8. Convert 0.06 to a fraction in lowest terms. Answer:







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19. A regular pack of milk powder weighs 800 grams. The weight of a value pack of milk powder is 20% more than that of a regular pack. How many grams does a value pack of milk powder weigh?

Please do not write in the margin.

(Show your working)

















34. Joe got 82 marks in the last Mathematics test and y marks this time. What is his average mark in these two tests?

$$\bigcirc A. \quad 82 + y$$
$$\bigcirc B. \quad \frac{y + 82}{2}$$
$$\bigcirc C. \quad 82y$$

$$O D. \frac{y-82}{2}$$

35.

Please do not write in the margin.

Which of the following is an equation?

- $\bigcirc A. \quad 2(y+1) \\ \bigcirc B. \quad 2+1=3$
- \circ C. 2 = 3y
- $\bigcirc D. \quad \frac{3y}{2} + 1$

36.
$$6x - 1 = 5$$

x =

	equation.
	is 3. Find the number by <i>the method of solving an</i>
37.	A number is divided by 4 and then minus 9. The result

(Show your working)

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7. stands for 1. Represent the shaded parts in the diagram below with a decimal. 10 Α. Ο 0.91 О B. C. 0.1 Ο 0.01 0 D. Convert 0.06 to a fraction in lowest terms. 8. Answer:



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12.
$$8\frac{1}{10} \div 1\frac{4}{5} =$$

13. $1.3 \times 4.2 =$

14. $4 \div 3.5 =$

(Round the answer to two decimal places)

15. A red ribbon is 117 cm long. The length of a green ribbon is 3 times that of the red ribbon. The total length of the two ribbons is _____ cm.

16. Each kilogram of banana costs $10\frac{4}{5}$ dollars. Mr Ho buys $1\frac{1}{4}$ kilograms of banana. He should pay _____ dollars.

17. There are 12 flowers in a bunch. 6 of them are roses and 3 are lilies. _______ % of all the flowers are roses and lilies.
18. A shopkeeper mixes 2.75 L of black tea with 0.5 L of milk to make milk tea. Then he pours every 0.25 L of milk tea into a cup. How many cups of milk tea can he make altogether? (Show your working)







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- 27. Mr Lee drove through a tunnel at an average speed of 80 kilometres per hour. It took him $\frac{1}{10}$ hour. The tunnel is ______ kilometre(s) long.
- 28. Measure the following angles with a protractor. Arrange them from the smallest to the largest. Write all the letters for the answers.



29. The table below shows the price of lunch sets in a fast food shop.

Set A	\$26.00
Set B	\$24.00
Set C	\$26.50

Mr Chan bought 1 box of lunch set A, 4 boxes of lunch set B and 2 boxes of lunch set C. On average, he should pay \$_____ for a lunch set.

30. If all the axis/ axes of symmetry of the shape is/ are marked with dotted line(s), which of the following diagram is correct?



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34. Joe got 82 marks in the last Mathematics test and y marks this time. What is his average mark in these two tests?

$$\bigcirc$$
 A. 82 + y

$$\bigcirc B. \quad \frac{y+82}{2}$$
$$\bigcirc C. \quad 82y$$

$$O D. \frac{y-82}{2}$$

35.

Please do not write in the margin.

Which of the following is an equation?

- A. 2(y+1)• B. 2+1=3
- $\bigcirc C. \quad 2 = 3y$
- $\bigcirc D. \quad \frac{3y}{2} + 1$

$$36. \quad \frac{k}{9} = 18$$
$$k =$$

2023-TSA-MATH-6ME2-16
37. Mrs Chan bought 4 toothbrushes and 1 tube of toothpaste.
She paid \$66.5 in total. The price of 1 tube of toothpaste
is \$30.5. Find the price of each toothbrush by *the method of solving an equation.*

(Show your working)

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38. There were 120 vehicles parked in Sunshine Car Park yesterday. Mr Lee did a survey on the numbers of different types of vehicles and constructed a pie chart below.

Vehicles Parked in Sunshine Car Park Yesterday





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7. stands for 1. Represent the shaded parts in the diagram below with a decimal. O A. 10 O B. 0.91 O C. 0.1 O D. 0.01 Convert $\frac{6}{11}$ to a decimal correct to two decimal places. 8. Answer: _____



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11.	$70 + 735 \div 7 =$ \bigcirc A. 175 \bigcirc B. 115 \bigcirc C. 105 \bigcirc D. 85
12.	$2\frac{5}{8} - (\frac{7}{8} + \frac{3}{8}) =$
13.	$8\frac{1}{10} \div 1\frac{4}{5} =$
14.	0.62 + (3.58 - 1.4) =





19. Mandy folds 114 paper stars. She keeps 18 of them for herself. Then she shares the remaining paper stars equally among 12 friends. How many paper stars does each friend get?

Please do not write in the margin.

(Show your working)

20. Winnie started stargazing at 20:45 and finished after
1 hour and 30 minutes. In '24-hour time', the finishing
time was ______ : _____ .













Which of the following 2-D shapes must have four sides 31. equal in length and four right angles?

- A. Rectangle Ο
- Rhombus Ο Β.
- O C. Trapezium
- Square Ο D.
- If all the axis/ axes of symmetry of the shape is/ are 32. marked with dotted line(s), which of the following diagram is correct?



С.

 \bigcirc









34. The table below shows the price of lunch sets in a fast food shop.

Set A	\$26.00
Set B	\$24.00
Set C	\$26.50

Mr Chan bought 1 box of lunch set A, 4 boxes of lunch set B and 2 boxes of lunch set C. On average, he should pay \$_____ for a lunch set.

35. Each movie ticket costs 110 dollars. Vivian wants to buyG movie tickets, but she still needs 40 dollars more. Howmany dollars does Vivian have?

 \bigcirc C. 110 + G + 40 \bigcirc D. 110 + G - 40

36. 6.3 = 3w

w =

37. Mrs Chan bought 4 toothbrushes and 1 tube of toothpaste.
She paid \$66.5 in total. The price of 1 tube of toothpaste is \$30.5. Find the price of each toothbrush by *the method of solving an equation*.

(Show your working)

Go on to the next page

38. There were 60 bottled drinks on the supermarket shelves.
The shopkeeper did a survey on the numbers of different types of drinks on the shelves and constructed the pie chart below.





39. The table below shows the number of cars sold by City Company in the last six months.

Month	January	February	March	April	May	June
Number of cars	30	54	40	46	42	20

According to the information above, use a pencil to complete the following broken line graph. Give it a title and add the scales.

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Write one **capital letter** in this box

1.	Arrange the following numbers from the smallest to the largest.
	518 400 , 3 127 000 , 395 600
	Answer:,,,,,(Largest)
2.	Which of the following numbers is a factor of 81?
	O A. 7
	O B. 19
	O C. 27
	O D. 162
3.	List the first three common multiples of 6 and 8.
	Answer:,,,
4.	The Highest Common Factor (H.C.F.) of 24 and 30
	is



7.	Convert $\frac{6}{11}$ to a decimal correct to two decimal places.
	Answer:
8.	Arrange the following numbers from the largest to the smallest.
	3.0403 , 104 , 3.04
	Answer:,,,,(Smallest)
9.	What percentage of the whole figure below is shaded?
	Answer:% of the whole figure is shaded.



5

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Aaron paid 165 dollars for half a dozen cakes. 17. On average, each cake costs _____ dollars. (Give the answer in decimals) 18. Joey shared 794 paper cranes equally among 51 patients. Which of the following expressions is most suitable for estimating the number of paper cranes each patient got? $700 \div 50$ Α. \bigcirc B. $700 \div 60$ \bigcirc C. $800 \div 50$ Ο D. $800 \div 60$ \bigcirc

19.	Tony has 780 dollars of pocket money. He spends $\frac{5}{6}$ of it
	and saves the rest. How many dollars does Tony save?
	(Show your working)

20.	Winnie started stargazing at 20:45 and finished after
	1 hour and 30 minutes. In '24-hour time', the finishing
	time was:










Go on to the next page



31. Which of the following 2-D shapes must have four sides equal in length and four right angles?
O A. Rectangle

- O B. Rhombus
- O C. Trapezium
- O D. Square
- 32. Study the 2-D shapes below. Write all the letter(s) for the answer.



List the axially symmetric shape(s).

Answer:



34.	Find the average of the five numbers below.
	8.9 , 43.6 , 24.5 , 31.1 , 12.4
	Answer: The average is
35.	Each movie ticket costs 110 dollars. Vivian wants to buy G movie tickets, but she still needs 40 dollars more. How many dollars does Vivian have?
	$ \bigcirc A. 110G + 40 \\ \bigcirc B. 110G - 40 \\ \bigcirc C. 110 + G + 40 \\ \bigcirc D. 110 + G - 40 $
36.	6.3 = 3w $w =$

Please do not write in the margin.

L

37. A number is divided by 4 and then minus 9. The result is 3. Find the number by *the method of solving an equation*.

(Show your working)

Go on to the next page

38. Mr Chan did a survey on the favourite types of television programmes of all pupils at Happy School. He drew the following bar chart according to the data.







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