



NANYANG PRIMARY SCHOOL  
END-OF-YEAR EXAMINATION  
2020

PRIMARY 3  
MATHEMATICS  
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour 45 minutes

Additional materials: Optical Answer Sheet (OAS)

**INSTRUCTIONS TO PUPILS**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.

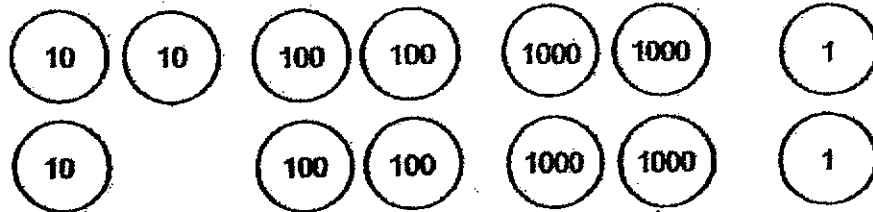
Name: \_\_\_\_\_ (      )

Class: Primary 3 (      )



Questions 1 to 20 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) and shade your answer on the Optical Answer Sheet. (40 marks)

1. What is the number shown by the number discs below?



- (1) 4432  
 (2) 4342  
 (3) 3442  
 (4) 3244

2. Arrange the following numbers in order, starting with the greatest number.



Greatest

Smallest

- (1) 4038, 4759, 6241, 6892  
 (2) 4759, 4038, 6892, 6241  
 (3) 6892, 6241, 4759, 4038  
 (4) 6892, 6241, 4038, 4759

3. What is the sum of 5274 and 1225?

- (1) 6499
- (2) 6472
- (3) 4051
- (4) 4049

4. What is the difference between 7408 and 2468?

- (1) 4040
- (2) 4940
- (3) 5060
- (4) 5160

5. Find the value of  $72 \div 9$ .

- (1) 6
- (2) 7
- (3) 8
- (4) 9

6. There are 524 erasers in a bag.  
How many erasers are there in 8 such bags?
- (1) 4062
  - (2) 4092
  - (3) 4162
  - (4) 4192
7. What is the remainder when 274 is divided by 7?
- (1) 1
  - (2) 6
  - (3) 34
  - (4) 39
8. Which of the following is not an equivalent fraction of  $\frac{1}{3}$ ?
- (1)  $\frac{2}{6}$
  - (2)  $\frac{3}{9}$
  - (3)  $\frac{8}{10}$
  - (4)  $\frac{4}{12}$

9. Arrange the fractions in order, starting from the greatest.

$\frac{3}{10}$	$\frac{5}{6}$	$\frac{6}{12}$	$\frac{1}{5}$
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Greatest                  Smallest

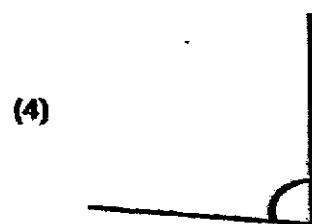
(1)  $\frac{1}{5}, \frac{3}{10}, \frac{5}{6}, \frac{6}{12}$

(2)  $\frac{5}{6}, \frac{6}{12}, \frac{3}{10}, \frac{1}{5}$

(3)  $\frac{6}{12}, \frac{3}{10}, \frac{5}{6}, \frac{1}{5}$

(4)  $\frac{6}{12}, \frac{5}{6}, \frac{3}{10}, \frac{1}{5}$

10. Which of the following figures shows an angle that is greater than a right angle?

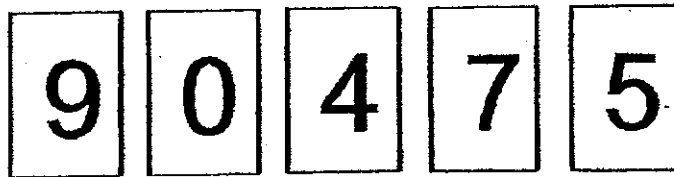


11. Manju prepared and poured some fruit juice into 4 containers as shown below.



How much fruit juice did she prepare altogether?

- (1) 37 ml  
 (2) 370 ml  
 (3) 3070 ml  
 (4) 3700 ml
12. Melissa uses the following number cards to form the greatest 4-digit odd number. Each card is only used once.



What is the number?

- (1) 9754  
 (2) 9745  
 (3) 9570  
 (4) 9547

13. Look at the number pattern below.  
The rule of the number pattern is to subtract 400 to get the next number.

**9999, 9599, 9199, 8799, 8399, 7899**

Which of the numbers in the number pattern is wrong?

- (1) 9199  
(2) 8799  
(3) 8399  
(4) 7899
14. There were 522 blue marbles.  
The number of red marbles was 3 times as many as the number of blue marbles.  
How many marbles were there altogether?
- (1) 2088  
(2) 1566  
(3) 696  
(4) 174
15. Mr Boo adds 2 g of sugar to his coffee each day.  
He has 608 g of sugar.  
How many days will Mr Boo take to finish all the sugar?
- (1) 34  
(2) 300  
(3) 304  
(4) 340



16. Aaron and his friends went running.  
The table below shows the distance Aaron and his friends ran.  
Who ran the furthest distance?

	Distance ran
Aaron	9870 cm
Benny	99 m
Charles	97 m 5 cm
Derek	9 km 9 m

- (1) Aaron  
(2) Benny  
(3) Charles  
(4) Derek
17. James bought a pair of pants and a shirt.  
The pair of pants cost \$37.40.  
The shirt cost \$24.50 less than the pair of pants.  
How much did James spend on the 2 items altogether?

- (1) \$99.30  
(2) \$86.40  
(3) \$61.90  
(4) \$50.30

18. Siew Hui and her friends left an amusement park at 7.10 p.m.  
They spent 8 h 35 min in the amusement park.  
What time did they reach the amusement park?
- (1) 10.35 a.m.
  - (2) 10.45 a.m.
  - (3) 11.35 a.m.
  - (4) 11.45 a.m.
19. A bookshelf can hold a total of 1124 books.  
Muthu has 327 books on the bookshelf.  
He wants to buy more books to fill his bookshelf completely.  
Each box contains 9 books.  
What is the smallest number of boxes of books that Muthu needs to buy?
- (1) 88
  - (2) 89
  - (3) 124
  - (4) 125
20. There is a 4-digit number.  
The first digit and the last digit of the number are even.  
The difference between the first digit and the last digit of the number is 2.  
The digit in the hundreds place is the sum of the digit in the thousands place and tens place.  
What is the number?
- (1) 4532
  - (2) 4732
  - (3) 6734
  - (4) 6932



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 2020

PRIMARY 3  
 MATHEMATICS  
 (BOOKLET B)

Total Duration for Booklets A and B: 1 hour 45 minutes

**INSTRUCTIONS TO PUPILS**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

Name: \_\_\_\_\_ ( )

Class: Primary 3 ( )

Parent's Signature: \_\_\_\_\_

Booklet A	/ 40
Booklet B	/ 60
Total	/ 100

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning the paper.

Questions 21 to 40 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

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21. Mrs Tan had some chocolate cupcakes and strawberry cupcakes at first. After she sold 675 chocolate cupcakes and 525 strawberry cupcakes, she had 100 cupcakes left. How many chocolate cupcakes and strawberry cupcakes did Mrs Tan have at first?

Ans: \_\_\_\_\_

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22. What is the missing numerator?

$$\frac{2}{7} = \frac{\boxed{?}}{28}$$

Ans: \_\_\_\_\_

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23. Write 3 h 43 min in minutes.

Ans: \_\_\_\_\_ min

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24. What is the missing fraction?

$$\frac{3}{8} + \frac{1}{4} = \boxed{?}$$

Ans: \_\_\_\_\_

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25. There are 7 bars of chocolate and 6 lollipops in each bag.  
There are a total of 35 bars of chocolate.  
How many lollipops are there in all the bags?

Ans: \_\_\_\_\_

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26. Alice collected 197 stamps.  
Zheng Xin collected 2 times as many stamps as Alice.  
Howard collected 48 more stamps than Zheng Xin.  
How many stamps did Howard collect?

Ans: \_\_\_\_\_

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27. Ismail had 869 cookies.  
He packed all of them into boxes of 8 with some cookies left over.  
How many cookies were left over?

Ans: \_\_\_\_\_

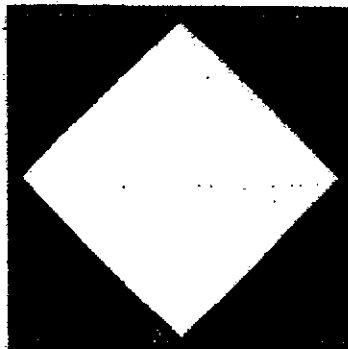
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28. Each packet of flour weighs 220 g.  
A baker has 4 such packets of flour.  
He wants to bake 8 similar cakes with all the packets of flour.  
How much flour will he use to bake one cake?

Ans: \_\_\_\_\_ 9

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29. Study the figure given below.



What fraction of the figure is shaded?  
Write the fraction in its simplest form.

Ans: \_\_\_\_\_

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30. Study the fractions below.

$$\boxed{\frac{1}{3}} \quad \boxed{\frac{4}{9}} \quad \boxed{\frac{1}{4}} \quad \boxed{\frac{2}{3}} \quad \boxed{\frac{1}{6}} \quad \boxed{\frac{7}{9}}$$

Which of the two fractions add up to make 1 whole?

Ans: \_\_\_\_\_ and \_\_\_\_\_

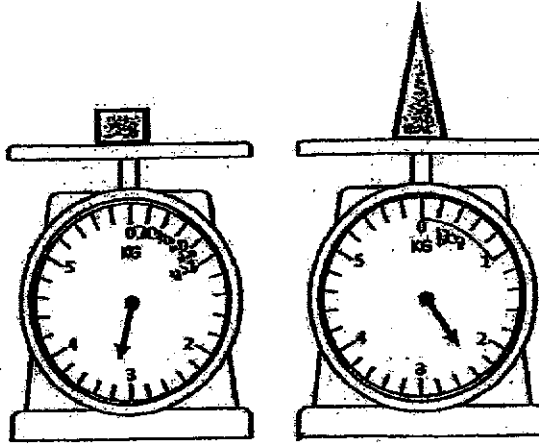
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31. Mr Lim bought a book for \$20.55 and a calculator for \$49.90.  
He gave the cashier a \$100 note.  
How much change did he receive?

Ans: \$ \_\_\_\_\_

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32. The weighing scales below show the masses of the following objects.



What is the total mass of the 2 objects?  
Give your answer in grams.

Ans: \_\_\_\_\_ 9

33. The capacity of a container is 990 mL.  
5 identical full bottles of water are needed to fill the container completely.  
2 identical full cups of water are needed to fill the bottle completely.  
What is the capacity of each cup?

Ans: \_\_\_\_\_ ml



34. Srijā watched a movie at 10.45 a.m.  
The movie ended 2 h 30 min later.  
What time did Srijā finish watching the movie?  
Give your answer in a.m. or p.m.

Ans: \_\_\_\_\_

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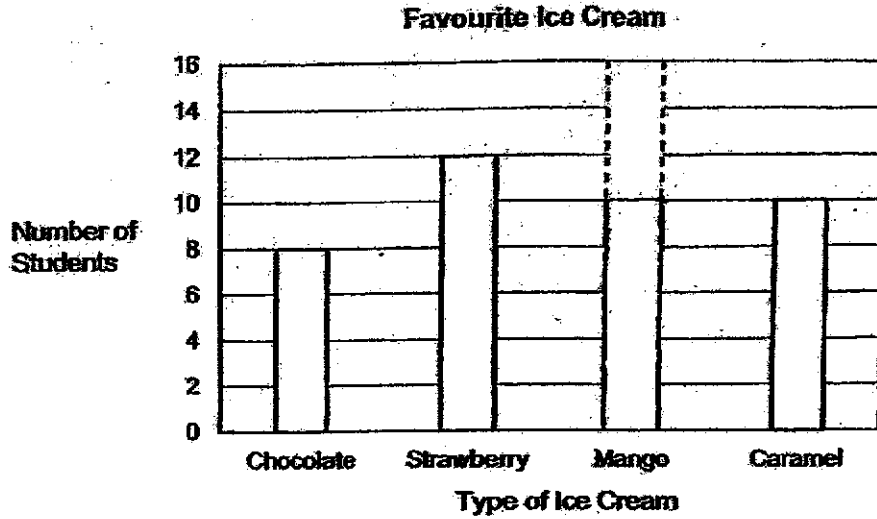
35. Alicia and Bernice had an equal number of stickers at first.  
Alicia used 1452 of her stickers and Bernice used 367 of her stickers.  
Bernice then bought another 230 stickers.  
How many more stickers did Bernice have than Alicia in the end?

Ans: \_\_\_\_\_

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36. The bar graph below shows the favourite ice cream flavours of a class of 40 students.

Complete the bar graph by drawing the bar that shows the number of students who chose mango ice cream.



37. Lynn had some beads at first.  
 Janice had 464 fewer beads than Lynn.  
 How many beads must Lynn give to Janice so that both of them would have the same number of beads in the end?

Ans: \_\_\_\_\_

38. Mr Toh bought 2 similar books and 3 similar magazines for \$24.90.  
1 such book and 1 such magazine cost a total of \$10.  
How much did 1 magazine cost?

Ans: \$ \_\_\_\_\_

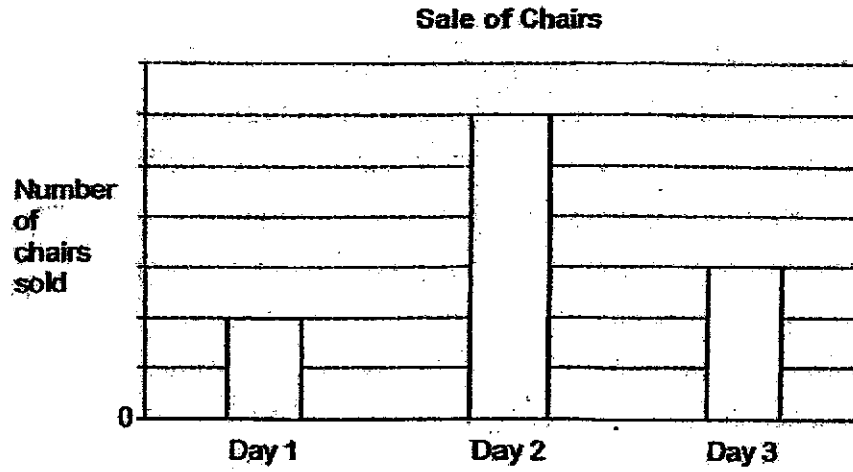
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39. En Xi had some pencils at first.  
She gave 472 of her pencils away and bought 158 pencils.  
In the end, she had 636 pencils.  
How many pencils did En Xi have at first?

Ans: \_\_\_\_\_

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40. The bar graph below shows the number of chairs Sandy sold in 3 days.



Sandy sold 20 more chairs on Day 2 than Day 1.  
How many chairs were sold on Day 3?

Ans: \_\_\_\_\_

For questions 41 to 45, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (20 marks)

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41. Ahmad has 738 sweets.  
He has 129 more sweets than Wayne.

(a) How many sweets does Wayne have?

Ahmad gives all his sweets equally to 6 people.

(b) How many sweets does each person get?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

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42. The route details of the MRT Triangle Line are as shown below.

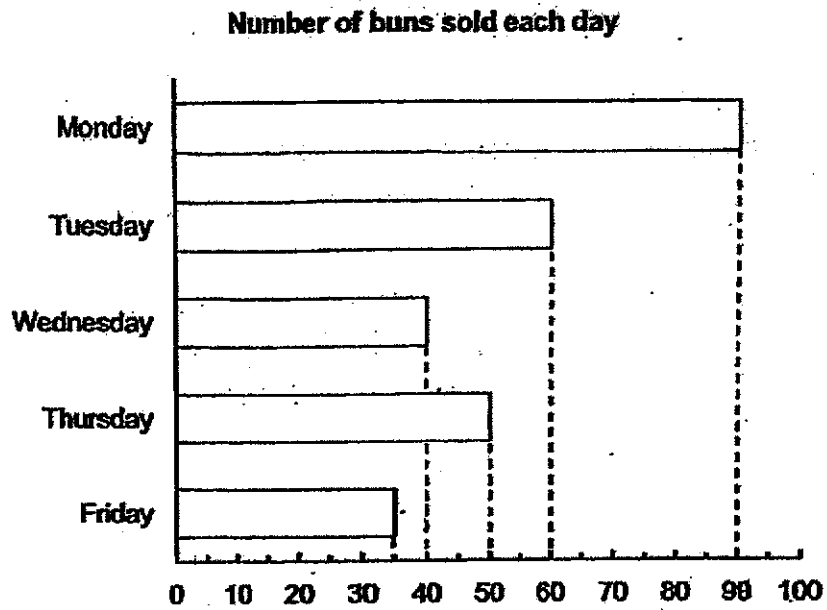
MRT Stations		Estimated Travel Time
From	To	
Cashew	Peanut	15 min
Peanut	Almond	19 min
Almond	Chestnut	13 min
Chestnut	Hazelnut	20 min

- (a) A train left Cashew MRT station at 10.58 a.m.  
What time would the train reach Peanut MRT station?
- (b) Fandi reached Hazelnut MRT station.  
He had spent about 52 minutes travelling on the train.  
Which station did he take the train from?

Ans. (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

43. A baker baked 100 buns each day.  
The bar graph shows the number of buns that were sold each day.



(a) How many buns were left unsold on Friday?

(b) How much did the baker receive from the sale of buns on Tuesday?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

44. A tank was filled with 6780 ml of water.  
Sam poured out 729 ml of water from the tank into an empty container.
- (a) How much water was left in the tank?  
Give your answer in litres and millilitres.

Sam poured out all the water from the container into 9 similar cups.  
He filled each cup to the brim before filling the next cup.  
In the end, he was short of 171 ml of water.

- (b) What was the capacity of each cup?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]



45. There are 13 dogs and chickens altogether.  
They have a total of 44 legs.

(a) How many dogs are there?

(b) How many more dogs than chickens are there?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [1]

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End of Paper



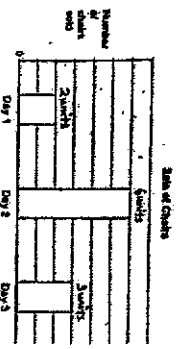








The bar graph shows the number of books Gerry sold in 3 days.



Books sold 20 more books on Day 2 than Day 1.  
How many books were sold on Day 2?

4 units = 20 books  
1 unit = 5 books  
3 units = 15 books

Ans: 15

For questions 41 to 43, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

41. Ahmed has 1200 marbles.  
He has 100 more marbles than Wilson.  
(a) How many marbles does Wilson have?

$$1200 - 100 = 1100$$

$$1200 - 100 = 1100$$

1200  
- 100  
-----  
1100

(b) How many marbles does each person get?

$$1100 \div 2 = 550$$

1200  
- 100  
-----  
1100  
1100  
- 550  
-----  
550

Ans: (a) 1100  
(b) 550

42. There are 18 boys and 12 girls in a class.  
They have a total of 400 kg.

Weight of boy (kg)	Weight of girl (kg)	Total weight (kg)	Mark
7	144	7 x 18 = 126	X
8	145	8 x 18 = 144	X
9	146	9 x 18 = 162	✓

$$9 - 4 = 5 \text{ (Ans)}$$

Ans: (a) 9  
(b) 5

43. The total length of the 400' through-line on an ocean bottom.

Area	Length (m)	Estimated Total Length (m)
Area 1	10.58	10.58
Area 2	11	11
Area 3	13	13
Area 4	14.15	14.15
Area 5	15	15
Area 6	16	16
Area 7	17	17
Area 8	18	18
Area 9	19	19
Area 10	20	20

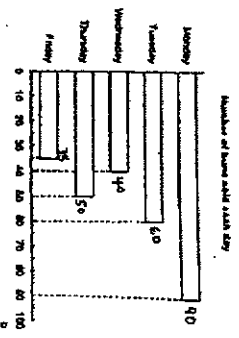
(a) A total of 1400 m of cable is used in the 400' through-line.  
What are the lengths of the 10 sections?

(b) How much cable is used in the 400' through-line?

$$10.58 + 11 + 13 + 14.15 + 15 + 16 + 17 + 18 + 19 + 20 = 140.78$$

Ans: (a) 140.78  
(b) 140.78

44. A team raised 1000 dollars each day.  
The bar graph shows the number of books that were sold each day.



(a) How many books were sold on Friday?

$$100 - 35 = 65$$

Ans: (a) 65  
(b) \$180

