

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

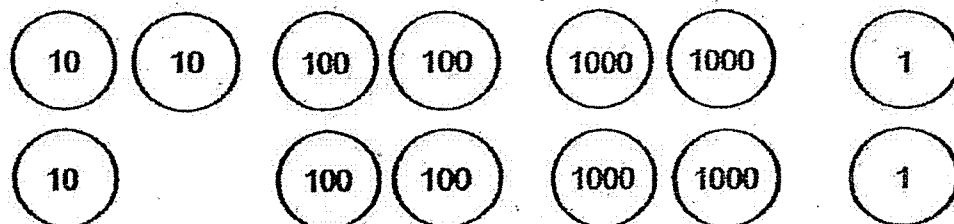
1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.

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.

6241	4759	4038	6892
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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

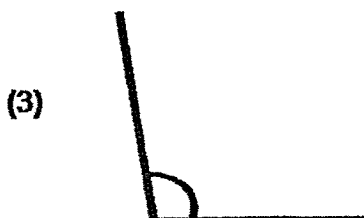
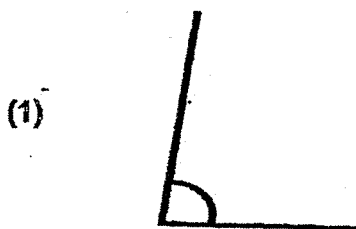
(1) $\frac{1}{5}, \frac{3}{10}, \frac{5}{6}, \frac{6}{12}$

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

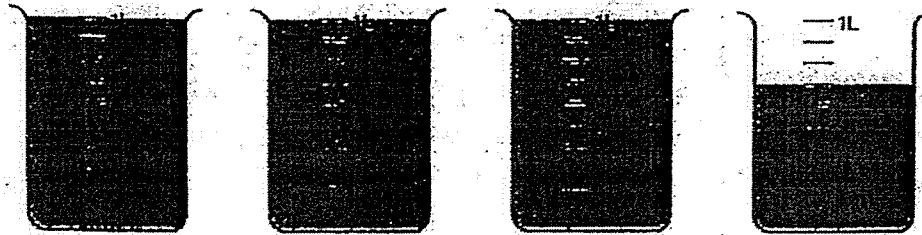
(3) $\frac{6}{12}, \frac{3}{10}, \frac{5}{6}, \frac{1}{5}$

(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?

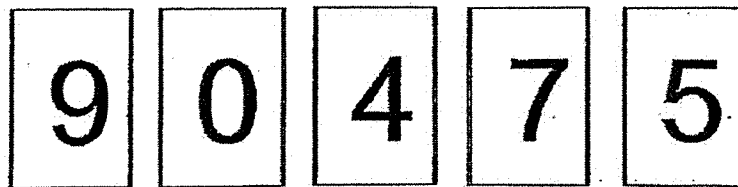


11. Manju prepared and poured some fruit juice into 4 containers as shown below.



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



NANYANG PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
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)

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: _____

22. What is the missing numerator?

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

Ans: _____

23. Write 3 h 43 min in minutes.

Ans: _____ min

24. What is the missing fraction?

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

Ans: _____

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: _____

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: _____

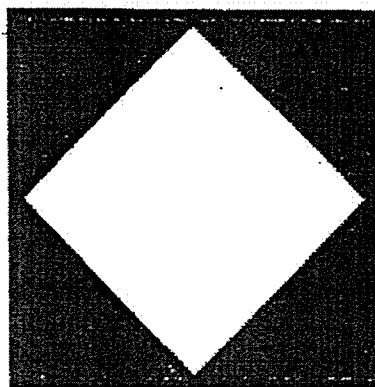
27. Ismail had 869 cookies.
He packed all of them into boxes of 8 with some cookies left over.
How many cookies were left over?

Ans: _____

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: _____ g

29. Study the figure given below.



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

Ans: _____

30. Study the fractions below.

$$\frac{1}{3}$$

$$\frac{4}{9}$$

$$\frac{1}{4}$$

$$\frac{2}{3}$$

$$\frac{1}{6}$$

$$\frac{7}{9}$$

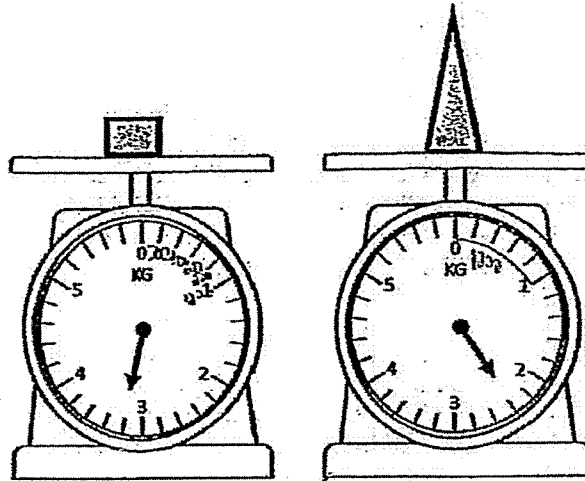
Which of the two fractions add up to make 1 whole?

Ans: _____ and _____

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: \$ _____

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: _____ g

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.

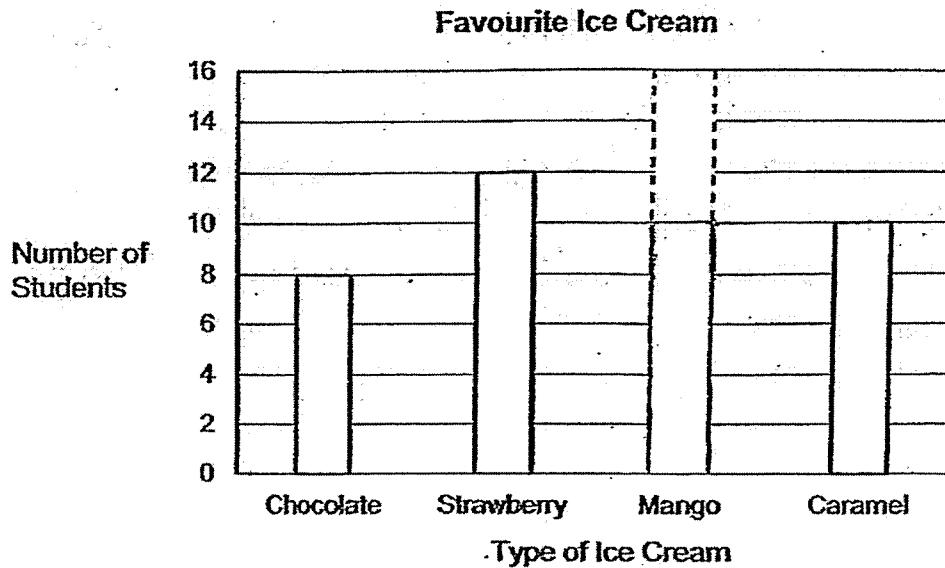
Ans: _____

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: _____

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: _____

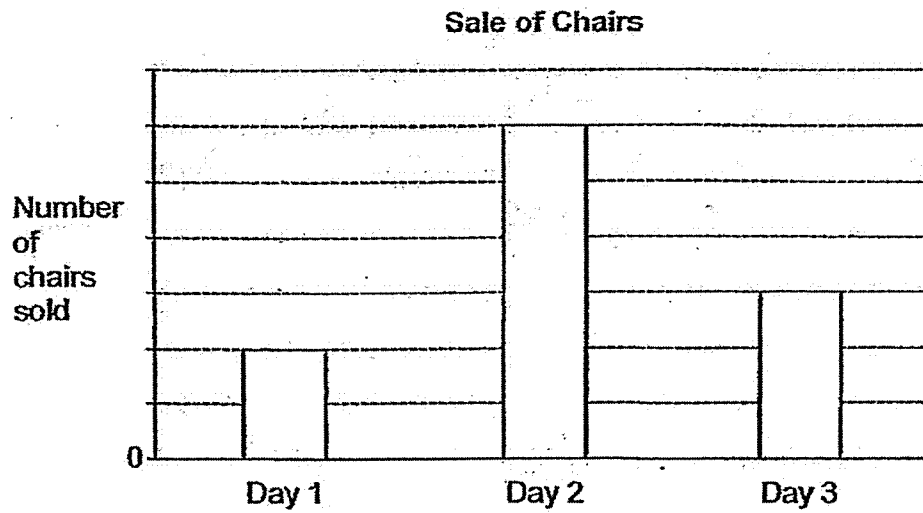
38. Mr Toh bought 2 similar books and 3 similar magazines for \$24.90.
1 such book and 1 such magazine cost a total of \$10.
How much did 1 magazine cost?

Ans: \$ _____

-
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: _____

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)

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]

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

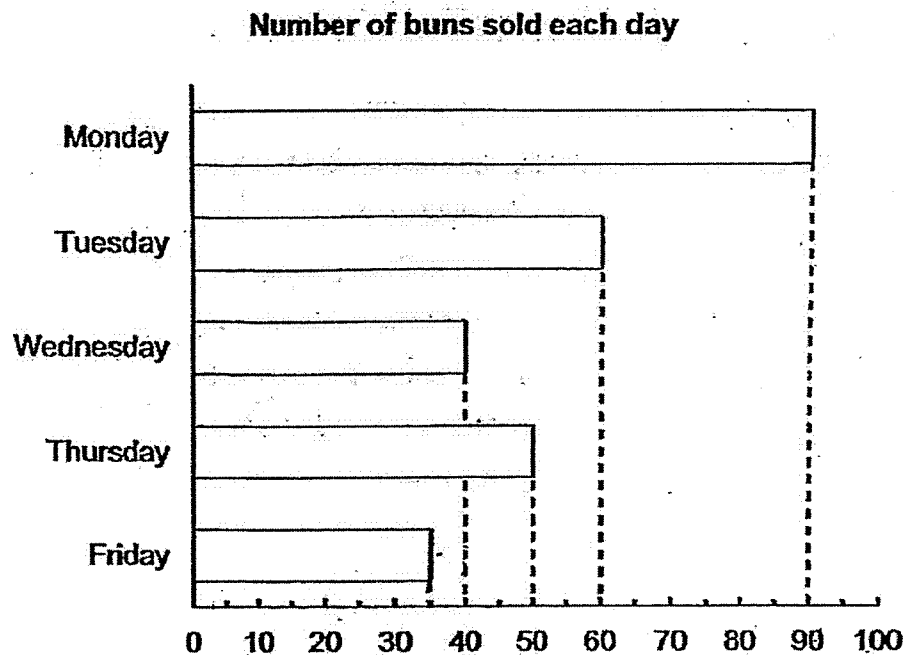
- (a) A train left Cashew MRT station at 10.58 a.m.
What time would the train reach Peanut MRT station?

- (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) Each bun was sold for \$0.50.

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]

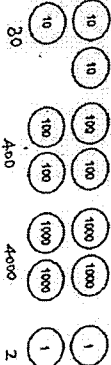
(b) _____ [1]

End of Paper

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

Questions 1 to 20 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Circle the correct option. (20 marks)

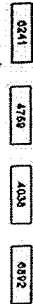
1. What is the number shown by the number disc below?



- (1) 4032
(2) 4042
(3) 3442
(4) 3244

(1)

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



- (1) 4038, 4750, 6241, 6072
(2) 4750, 4038, 6072, 6241
(3) 6072, 6241, 4750, 4038
(4) 6072, 6241, 4038, 4750

(3)

3. What is the sum of 5274 and 1203?

$$\begin{array}{r} 5274 \\ + 1203 \\ \hline 6477 \end{array}$$

(1)

4. What is the difference between 7406 and 2467?

$$\begin{array}{r} 7406 \\ - 2467 \\ \hline 4939 \end{array}$$

(2)

5. Find the value of $72 \div 6$.

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

(3)

6. There are 828 marbles in a bag. How many marbles are there in 6 such bags?

$$\begin{array}{r} 828 \\ \times 6 \\ \hline 4968 \end{array}$$

(4)

7. What is the remainder when 274 is divided by 7?

$$\begin{array}{r} 274 \\ \div 7 \\ \hline 39 \text{ R } 1 \end{array}$$

(1)

8. Which of the following is not an equivalent fraction of $\frac{2}{3}$?

- (1) $\frac{2}{3}$
(2) $\frac{4}{6}$
(3) $\frac{6}{9}$
(4) $\frac{8}{12}$

(3)

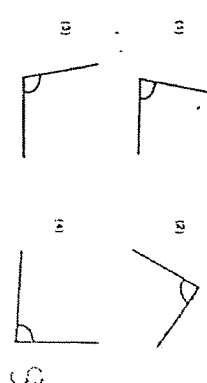
9. Arrange the fractions in order, from least to greatest.

$$\frac{3}{10}, \frac{5}{12}, \frac{6}{15}, \frac{1}{5}$$

$$\frac{1}{5} = \frac{2}{10} = \frac{4}{20}$$

(2)

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



(2)

11. Aaron and his friends went cycling. The table below shows the distance Aaron and his friends ran. Who ran the longest distance?

| Name | Distance ran |
|---------|--------------|
| Aaron | 6870 cm |
| Benny | 98 m |
| Charles | 97 m 8 cm |
| Derek | 9 km 8 m |

(4)

12. A rectangular field is 124 m long and 79 m wide. What is the perimeter of the field?

$$124 + 79 + 124 + 79 = 306 \text{ m}$$

(1)

13. A rectangular field is 124 m long and 79 m wide. What is the area of the field?

$$124 \times 79 = 9796 \text{ m}^2$$

(2)

14. There is a 4-digit number. The first digit is 4, the second digit is 2, the third digit is 7, and the fourth digit is 5. What is the number?

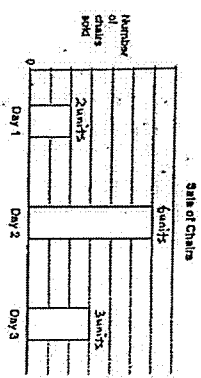
$$4275$$

(2)

15. A rectangular field is 124 m long and 79 m wide. What is the perimeter of the field?

$$124 + 79 + 124 + 79 = 306 \text{ m}$$

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?

6 units = 20 chairs = 4 units

4 units = 20

3 units = 5 x 3 = 15 (chairs)

Ans: 15

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

41. Ahmed has 128 sweets.

(a) How many sweets does Wayne have?

$$\begin{array}{r} 128 \\ - 129 \\ \hline \end{array}$$

$$\begin{array}{r} 738 \\ - 129 \\ \hline 609 \end{array}$$

Ahmed gives all his sweets equally to 8 people.

(b) How many sweets does each person get?

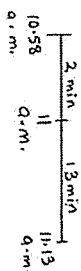
$$738 \div 8 = 92.25$$

$$\begin{array}{r} 123 \\ - 6738 \\ \hline \end{array}$$

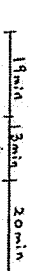
42. The route details of the MRT Triangle Line are shown below.

| From | MRT Station | To | Estimated Travel Time |
|--------|-------------|--------|-----------------------|
| Changi | Changi | Changi | 10 min |
| Changi | Changi | Changi | 10 min |
| Changi | Changi | Changi | 10 min |
| Changi | Changi | Changi | 10 min |

- (a) A train left Changi MRT station at 10.55 a.m. What time would the train reach Pongsheng MRT station?



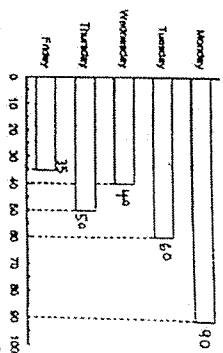
- (b) Farid reached Pongsheng MRT station. He had spent about 50 minutes travelling on the train. Which station did he take the train from?



$$19 + 13 + 20 = 52$$

Ans: (a) 11:13 a.m. (b) Pongsheng

43. A dealer packed 100 buses each day. The bar graph below shows the number of buses that were sold each day.



(a) How many buses were not sold on Friday?

$$100 - 35 = 65$$

(b) Each bus was sold for \$3. How much did the dealer receive from the sale of buses on Tuesday?

$$60 \times \$3 = \$180$$

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

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.

$$6780 - 729 = 6051$$

$$6051 \text{ ml} = 6 \text{ L } 51 \text{ ml (chairs)}$$

$$\begin{array}{r} 6780 \\ - 729 \\ \hline 6051 \end{array}$$

Sam poured out all the water from the container into 2 smaller cups. He filled each cup to the brim before filling the next cup. In the end, he was left with 100 ml of water.

(b) What was the capacity of each cup?

$$6051 - 100 = 5951$$

$$5951 \div 2 = 2975.5$$

$$2975.5 \times 2 = 5951$$

$$5951 - 100 = 5851$$

$$5851 \div 2 = 2925.5$$

$$2925.5 \times 2 = 5851$$

$$5851 - 100 = 5751$$

$$5751 \div 2 = 2875.5$$

$$2875.5 \times 2 = 5751$$

$$5751 - 100 = 5651$$

$$5651 \div 2 = 2825.5$$

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

(a) How many dogs are there?

| Number of animals | Legs | Total legs | Check |
|-------------------|------|--------------|-------|
| 7 | 14 | 7 x 4 = 28 | x |
| 8 | 16 | 8 x 2 = 16 | x |
| 9 | 18 | 9 x 2 = 18 | x |
| 10 | 20 | 10 x 2 = 20 | x |
| 11 | 22 | 11 x 2 = 22 | x |
| 12 | 24 | 12 x 2 = 24 | x |
| 13 | 26 | 13 x 2 = 26 | x |
| 14 | 28 | 14 x 2 = 28 | x |
| 15 | 30 | 15 x 2 = 30 | x |
| 16 | 32 | 16 x 2 = 32 | x |
| 17 | 34 | 17 x 2 = 34 | x |
| 18 | 36 | 18 x 2 = 36 | x |
| 19 | 38 | 19 x 2 = 38 | x |
| 20 | 40 | 20 x 2 = 40 | x |
| 21 | 42 | 21 x 2 = 42 | x |
| 22 | 44 | 22 x 2 = 44 | x |
| 23 | 46 | 23 x 2 = 46 | x |
| 24 | 48 | 24 x 2 = 48 | x |
| 25 | 50 | 25 x 2 = 50 | x |
| 26 | 52 | 26 x 2 = 52 | x |
| 27 | 54 | 27 x 2 = 54 | x |
| 28 | 56 | 28 x 2 = 56 | x |
| 29 | 58 | 29 x 2 = 58 | x |
| 30 | 60 | 30 x 2 = 60 | x |
| 31 | 62 | 31 x 2 = 62 | x |
| 32 | 64 | 32 x 2 = 64 | x |
| 33 | 66 | 33 x 2 = 66 | x |
| 34 | 68 | 34 x 2 = 68 | x |
| 35 | 70 | 35 x 2 = 70 | x |
| 36 | 72 | 36 x 2 = 72 | x |
| 37 | 74 | 37 x 2 = 74 | x |
| 38 | 76 | 38 x 2 = 76 | x |
| 39 | 78 | 39 x 2 = 78 | x |
| 40 | 80 | 40 x 2 = 80 | x |
| 41 | 82 | 41 x 2 = 82 | x |
| 42 | 84 | 42 x 2 = 84 | x |
| 43 | 86 | 43 x 2 = 86 | x |
| 44 | 88 | 44 x 2 = 88 | x |
| 45 | 90 | 45 x 2 = 90 | x |
| 46 | 92 | 46 x 2 = 92 | x |
| 47 | 94 | 47 x 2 = 94 | x |
| 48 | 96 | 48 x 2 = 96 | x |
| 49 | 98 | 49 x 2 = 98 | x |
| 50 | 100 | 50 x 2 = 100 | x |

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

$$9 - 4 = 5$$

Ans: (a) 9 (b) 5

(c) 5

End of Paper