

Tao Nan School
Primary 3 Mathematics End-of-Year Examination 2006

Date: 27 October 2006

Class: Primary 3 ()

Time: 1.30 to 3.00 p.m

Marks: / 80

SECTION A (20 marks)

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 the correct oval on the Optical Answer Sheet (OAS).

1) In the number 6095, the digit _____ is in the hundreds place.

- (1) 0
- (2) 5
- (3) 6
- (4) 9

2) 3989 is _____ more than 1089.

- (1) 2800
- (2) 2900
- (3) 4978
- (4) 5078

3) The sum of 4830 and 209 is _____.

- (1) 4039
- (2) 4621
- (3) 5039
- (4) 6920

4) $7777 = 700 + 7000 + 7 + \underline{\hspace{2cm}}$

- (1) 7
- (2) 70
- (3) 700
- (4) 7000

5) What is the missing digit in the ^{box}boxes below?

$$\begin{array}{r} 79\ \square\ 2 \\ - 4389 \\ \hline 3563 \end{array}$$

- (1) 7
- (2) 6
- (3) 5
- (4) 4

6) $4\text{ m } 3\text{ cm} = \underline{\hspace{2cm}}\text{ cm}$

- (1) 43
- (2) 403
- (3) 430
- (4) 4003

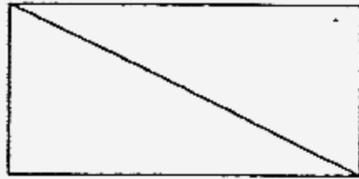
7) Divide 872 by 7. The remainder is .

- (1) 1
- (2) 2
- (3) 3
- (4) 4

8) The difference between 4 l 5 ml and 2 l 904 ml is _____.

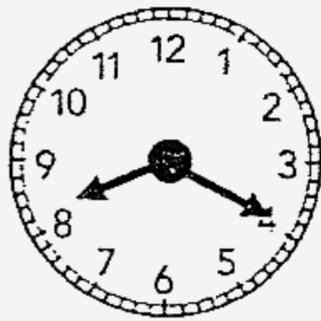
- (1) 1101 ml
- (2) 1596 ml
- (3) 2859 ml
- (4) 6909 ml

9) How many right angles are there in the figure below?



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

10) The time shown on the clock is _____.



- (1) 20 minutes to 8
- (2) 20 minutes past 8
- (3) 20 minutes to 9
- (4) 20 minutes past 9

11) $\frac{3}{8} = \frac{\square}{24}$

The missing numerator in the equivalent fraction is _____.

- (1) 9
- (2) 12
- (3) 19
- (4) 24

12) $500 \div 5 =$ _____ tens

- (1) 5
- (2) 10
- (3) 50
- (4) 100

13) Cindy starts to practise her piano at half past nine in the morning.
If she spends 1 h 15 min practising, at what time will she stop?

- (1) 10.00 a.m.
- (2) 10.15 a.m.
- (3) 10.30 a.m.
- (4) 10.45 a.m.

14) \$ 9.50 = _____ fifty-cent coins

- (1) 9
- (2) 10
- (3) 19
- (4) 20

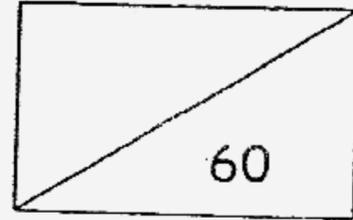
15) What number does the  represent?

$$\diamond + \diamond + \diamond = 120$$

$$\diamond + \text{pentagon} = 90$$

$$\text{star} + \text{pentagon} = 110$$

- (1) 30
- (2) 40
- (3) 50
- (4) 60



SECTION B (20 marks)

Each question carries 1 mark. Write your answers in the boxes provided.
For questions which require units, give your answer in the units stated.

16) Write the number 7855 in words.

17) Complete the number pattern below.

90, 81, 72, _____, 54

18) $10 \times 7 = 10 \times 4 + 10 \times$ _____

19) 2 h 45 min = _____ min

20) Divide 535 by 5.

The quotient is _____.

21) The product of 450 and 6 is _____.

22) $\frac{5}{15} = \frac{1}{\boxed{?}}$

What is the missing number?

23) $135 \times 4 = 400 + 120 + \underline{\hspace{2cm}}$

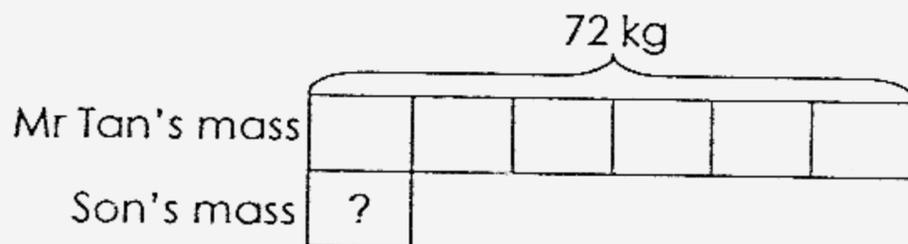
24) 7 l 765 ml = _____ ml

| |
|----|
| ml |
|----|

25) Find the sum of 12 km 76 m and 28 km 39 m.

| | |
|----|---|
| km | m |
|----|---|

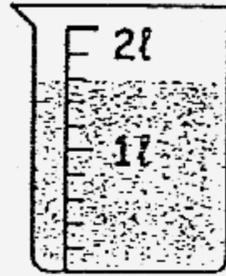
26)



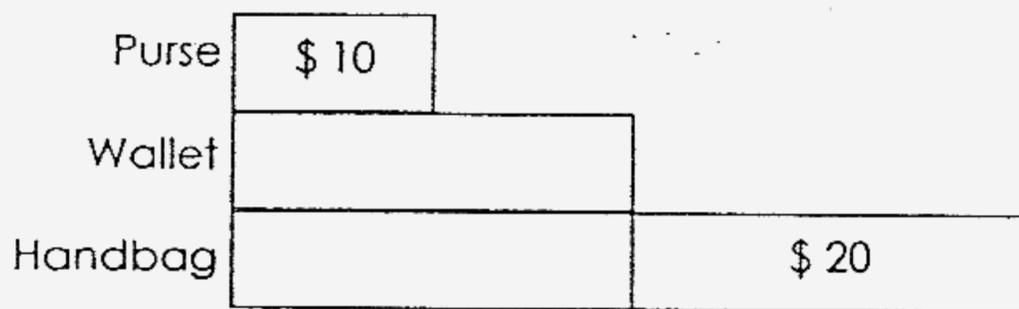
What is the mass of his son?

| |
|----|
| kg |
|----|

27) What is the volume of the water in the container?

 ml

28)



A wallet costs twice as much as a purse.

The handbag costs _____ times as much as the purse.

29) 3 l 600 ml of juice is shared equally among 9 children.

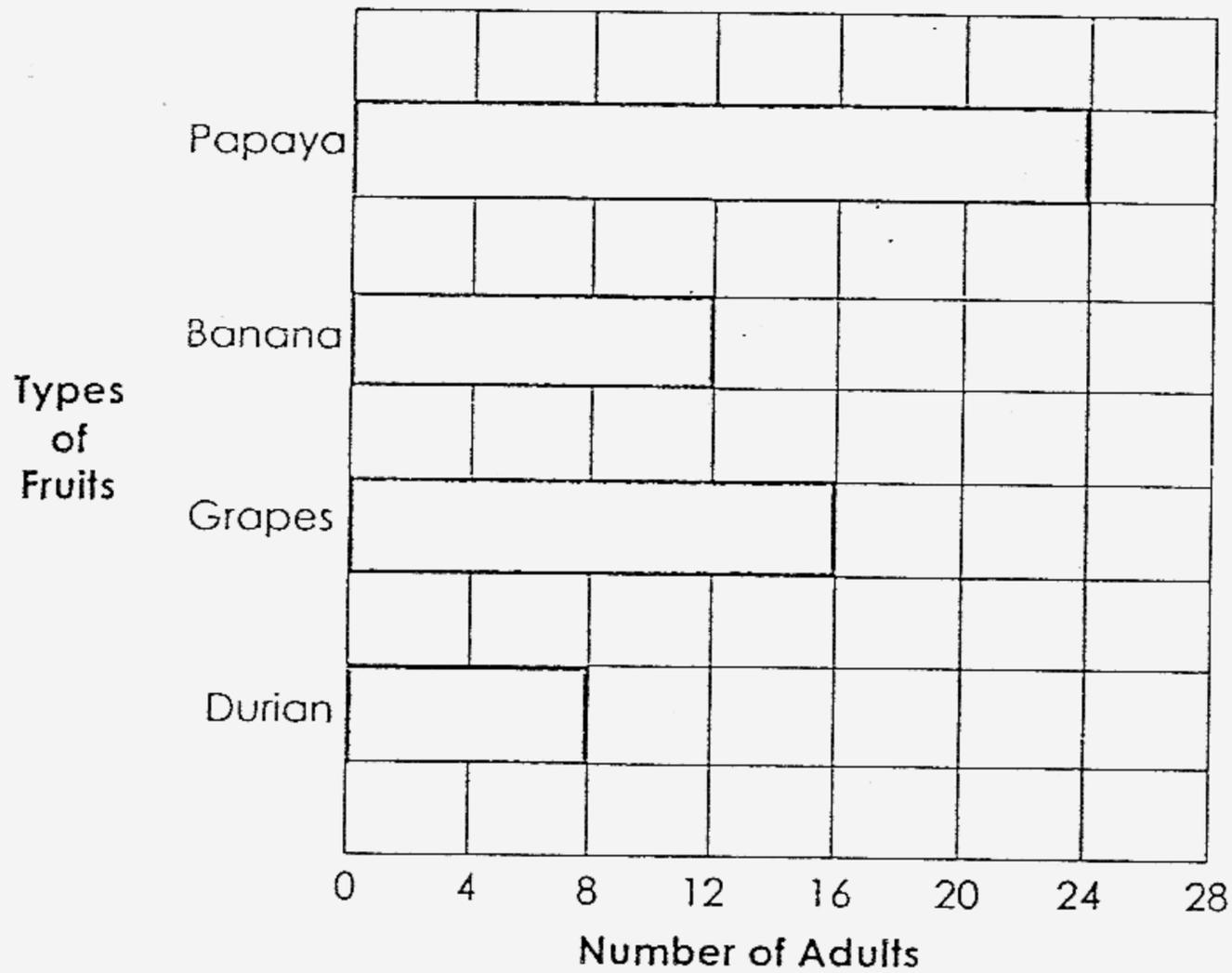
Each child will get _____ ml of juice.

 ml

graph

Use the bar ~~graph~~ below to answer questions 30 and 31.

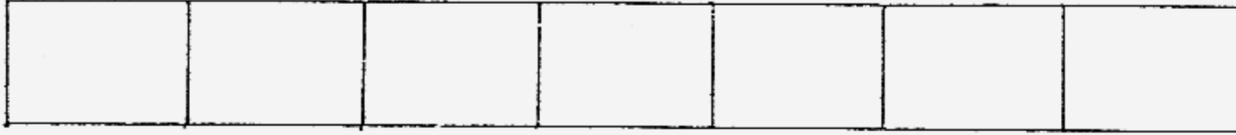
The bar graph shows the type of fruits adults like.



30) Which fruit is thrice as popular as durians?

31) How many adults like grapes and papaya?

- 32) A farmer had 49kg of vegetables. $\frac{2}{7}$ of the vegetables were rotten.
Colour the units to show the mass of vegetables left.

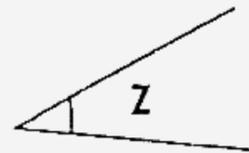
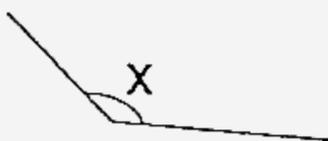


- 33) Xinli took a flight from Singapore to Perth. She arrived in Perth at 11.55 a.m. after flying for 3 h and 30 min. At what time did she depart from Singapore?

a.m.

- 34) Look at these angles and complete the statement.

Angle _____ is the biggest.



Angle

35) Use the 3 digits to form a number that will give the **greatest** product.
Use each number once only.



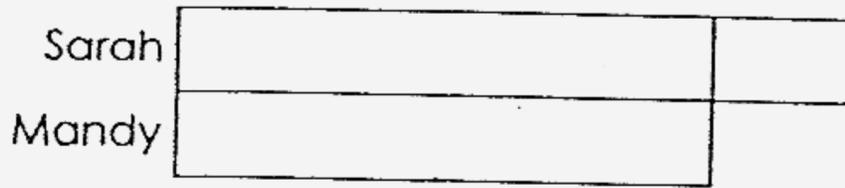
$$\begin{array}{r} \square \square \square \\ \times \qquad \qquad 9 \\ \hline 6 \quad 7 \quad 6 \quad 8 \\ \hline \end{array}$$

SECTION C – (40 marks)

For each of the following problems, show all your working clearly in the spaces and write your answers in the spaces provided.

- 36) Mary baked 376 cookies on Monday.
She baked 208 fewer cookies on Tuesday.
How many cookies did she bake on Tuesday? (4m)
- 37) Factory A can make 350 bottles in a day.
Factory B can make four times as many bottles as Factory A in a day.
How many bottles can Factory B make in a day? (4m)

- 38) Sarah has 66 tarts more than Mandy.
If they have 500 tarts in all, how many tarts does Mandy have? (4m)

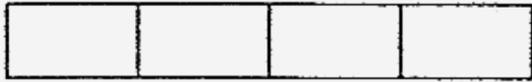


- 39) John spends 40 min on his English homework.
He spends another 1 h 15 min on his Science homework.
If John starts doing his homework at 1p.m., at what time will he finish
doing all his homework? (4m)

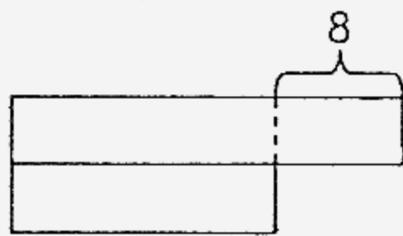
- 40) Lynn had 8 m of ribbon.
She used 4 m of it to tie a parcel and divided the rest into 4 equal pieces.
What is the length of each piece of ribbon? (4 m)

- 41) A pail holds 4 ℓ of water and a basin holds 2 ℓ of water.
Xilin needs to fill a tank with a capacity of 72 ℓ.
She uses the same number of pails and basins to fill the tank.
How many pails does she need to fill the tank? (4 m)

- 42) Siti had 100 pieces of stamps.
She gave $\frac{1}{4}$ of her stamps to Ali.
How many stamps had Siti left? (4m)

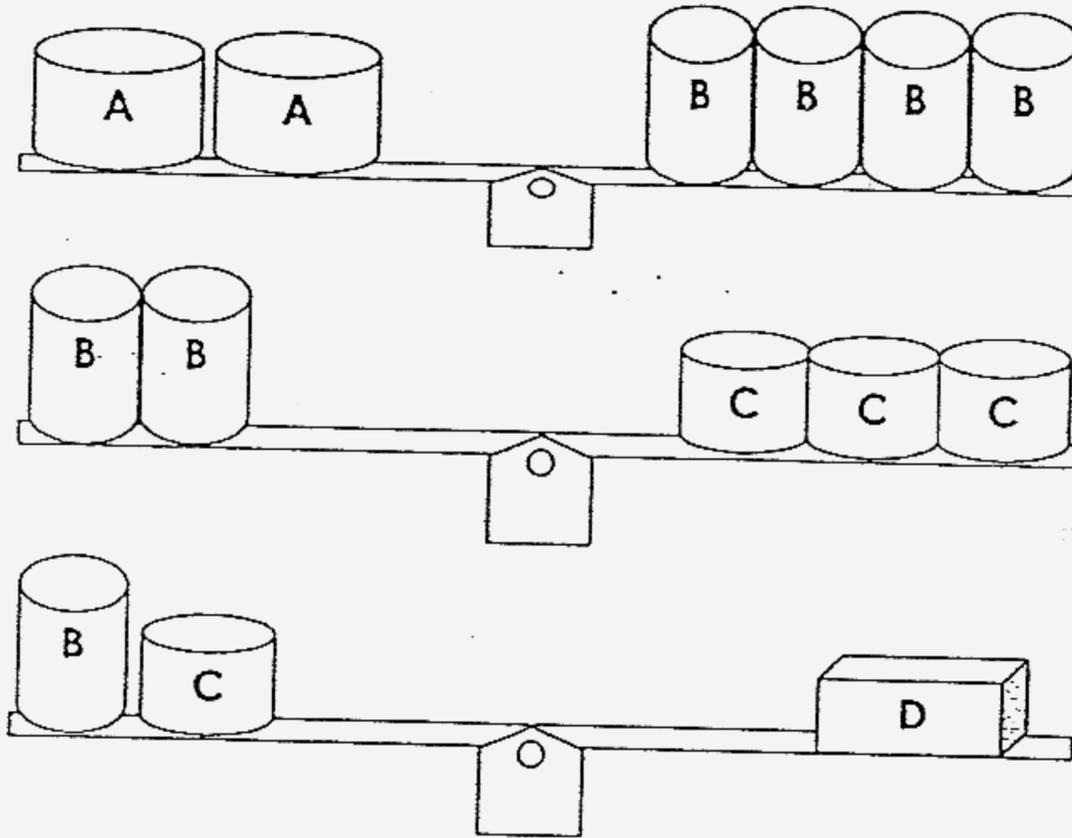


- 43) Amy had 8 more stamps than Cheryl.
She gave Cheryl 3 of her stamps.
How many **more** stamps did Amy have than Cheryl after that? (4m)



- 44) June went to the bookshop to buy 1 file and 4 notebooks.
The file cost twice as much as a notebook.
She gave the cashier \$30 and received \$6 in return.
What was the cost of 1 notebook? (4m)

45) Study the weighing scales shown.
A is 1200g.
What is the mass of D? (4m)



- 1) 1 2) 2 3) 3 4) 2 5) 3
 6) 2 7) 4 8) 1 9) 4 10) 2
 11) 1 12) 2 13) 4 14) 3 15) 4

16. Seven thousand eight hundred fifty-five.

17. 90, 81, 72, 63, 54

18. $10 \times 7 = 10 \times 4 + 10 \times \underline{3}$

19. 2h 45 min = 165 mins
 $2 \times 60 = 120 + 45 = 165\text{mins}$

20. $535 \div 5 = 107$

21. $450 \times 6 = 2700$

22. $\frac{5}{15} = \frac{1}{3}$

23. $135 \times 4 = 400 + 120 + \underline{20}$

24. 7l 765ml = 7765ml

25. 12km 76m = 1276m
 28km 39m = 2839m
 $(2839 + 1276)\text{m} = 4115\text{m}$
 = 40km 115m

26. Mr Tan = 72kg
 = $72 \div 6$
 = 12kg

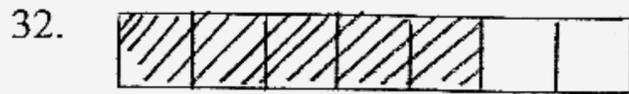
27. 1600ml

28. Wallet = $2 \times \$10 = \20.00 (2 times)
 Handbag = $\$20 \times 2 = \40.00 (2 times)
 = $2 \times 2 = \mathbf{4 \text{ times}}$

29. $3600\text{ml} \div 9 = 400\text{ml}$

30. Papaya

31. Grapes = 16
 Papaya = 24
 = $24 + 16$
 = 40



33. $1155 - 330 = 0825$
 $= 8.25\text{am}$

34. Angle X is the biggest.

35. $6768 \div 9 = 752$

36. Monday = 376 cookies
 Tuesday = $376 - 208$
 $= 168$ cookies

She baked 168 cookies on Tuesday.

37. Factory A = 350 bottles
 Factory B = 350×4
 $= 1400$ bottles

Factory B can make 1400 bottles in a day.

38. Sarah + Mandy = 500 tarts
 $= 500 - 66$
 $= 434$
 $= 434 \div 2$
 $= 217$

Mandy has 217 tarts.

39. English = 40 mins
 Science = 1 hr 15 min (75mins)
 $= (40 + 75)$ mins
 $= 1 \text{ hr } 55 \text{ mins}$

1pm = 1300hours
 $= 1300 + 155$
 $= 1455$
 $= 2.55\text{pm}$

He will finish at 2.55pm

$$\begin{aligned}
 40. \quad 8\text{m} - 4\text{m} &= 4\text{m} \\
 4\text{m} &= 400\text{cm} \\
 &= 400 \div 4 \\
 &= 100\text{cm} (1\text{m})
 \end{aligned}$$

Each piece of ribbon is **100cm (1m)**

$$\begin{aligned}
 41. \quad \text{Pail} &= 4\ell \text{ of water} \\
 \text{Basin} &= 2\ell \text{ of water} \\
 &= 4 + 2 = 6\ell \\
 &= 72 \div 6 \\
 &= 12 \text{ pails}
 \end{aligned}$$

She needs **12 pails** to fill the tank.

$$\begin{aligned}
 42. \quad 4 \text{ units} &= 100 \text{ stamps} \\
 1 \text{ unit} &= 25 \text{ stamps} \\
 3 \text{ units} &= 3 \times 25 \\
 &= 75 \text{ stamps}
 \end{aligned}$$

Siti has **75 stamps** left.

$$\begin{aligned}
 43. \quad 8 - 3 &= 5 \text{ stamps (left)} \\
 5 - 3 &= 2 \text{ stamps}
 \end{aligned}$$

Amy has **2 more stamps** than Cheryl.

$$\begin{aligned}
 44. \quad \$30 - \$6 &= \$24.00 \\
 1 \text{ file} + 4 \text{ note book} &= \$24.00 \\
 2 \text{ files} + 4 \text{ note book} &= \$24.00 \div 6 \\
 &= \$4.00
 \end{aligned}$$

$$\begin{aligned}
 45. \quad 4\text{B} &= 1200\text{g (A)} \\
 1\text{B} &= 300\text{g} \\
 2\text{B} &= 300 \times 2 = 600\text{g} \\
 3\text{C} &= 600\text{g} \\
 1\text{C} &= 200\text{g} \\
 1\text{B} + 1\text{C} &= 300 + 200 \\
 &= 500\text{g}
 \end{aligned}$$

The mass of D is **500g**.