



# AI TONG SCHOOL

2020

END-OF-YEAR EXAMINATION

PRIMARY 3

**MATHEMATICS**

**DURATION : 1 h 30 min**

**DATE : 3 NOVEMBER 2020**

## INSTRUCTIONS

Do not open the booklet until you are told to do so.

Follow all instructions.

Answer all questions.

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

Class : Primary 3 \_\_\_\_\_

|                    |   |       |
|--------------------|---|-------|
| Parent's Signature | : | _____ |
| Date               | : | _____ |

**Marks :**

|           |     |
|-----------|-----|
| Section A | 30  |
| Section B | 40  |
| Section C | 30  |
| Total     | 100 |

**Section A**

Questions 1 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet with a 2B pencil.

(30 marks)

1 What is the value of digit 6 in 8657?

- (1) 6 ones
- (2) 6 tens
- (3) 6 hundreds
- (4) 6 thousands

2 Which of the following is equivalent to  $\frac{6}{8}$ ?

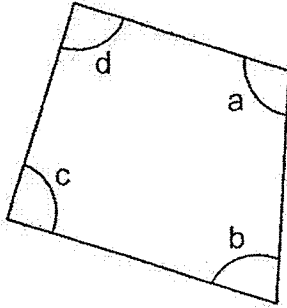
- (1)  $\frac{7}{9}$
- (2)  $\frac{5}{7}$
- (3)  $\frac{4}{6}$
- (4)  $\frac{3}{4}$

3 Which fraction is greater than  $\frac{1}{2}$ ?

- (1)  $\frac{2}{5}$
- (2)  $\frac{3}{6}$
- (3)  $\frac{3}{7}$
- (4)  $\frac{5}{8}$

- 4 Junlong spent 150 min reading a storybook.  
Express the time spent in hours and minutes.
- (1) 2 h 50 min
  - (2) 2 h 30 min
  - (3) 1 h 50 min
  - (4) 1 h 30 min
- 5 Siti travelled 2400 m from her home to the swimming complex.  
Which of the following is equal to this distance?
- (1) 2 km 4 m
  - (2) 2 km 40 m
  - (3) 2 km 400 m
  - (4) 20 km 40 m
- 6 Raja has 4 fifty-dollar notes, 6 ten-dollar notes and 5 five-dollar notes.  
How much money does he have altogether?
- (1) \$ 265
  - (2) \$ 285
  - (3) \$ 465
  - (4) \$ 485
- 7 Regan bought some candies.  
He ate 4 candies and packed the rest of the candies equally into 8 jars.  
Each jar contained 56 candies. How many candies did Regan buy?
- (1) 480
  - (2) 452
  - (3) 448
  - (4) 444

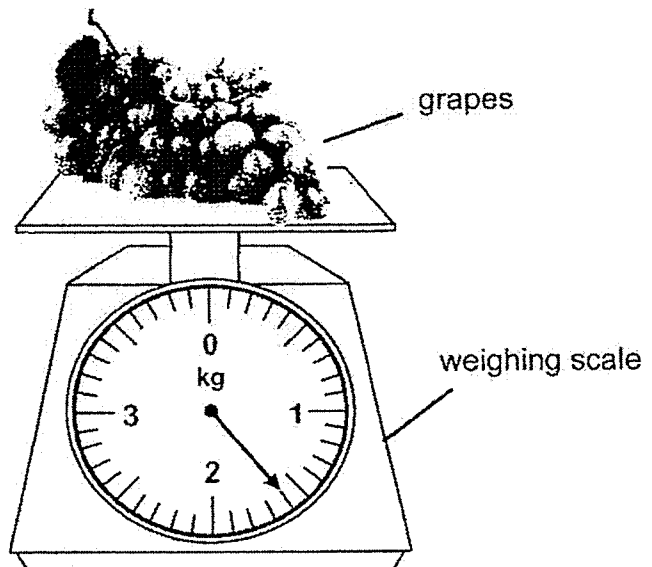
- 8 Study the marked angles in the figure below.



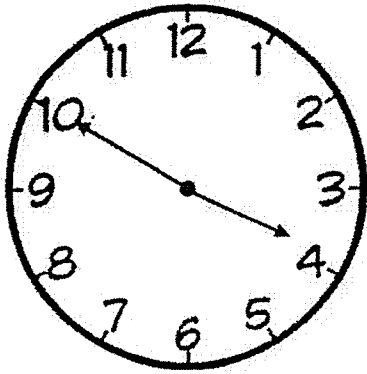
Which is an obtuse angle?

- (1)  $\angle a$
  - (2)  $\angle b$
  - (3)  $\angle c$
  - (4)  $\angle d$
- 9 What is the mass of grapes on the weighing scale?

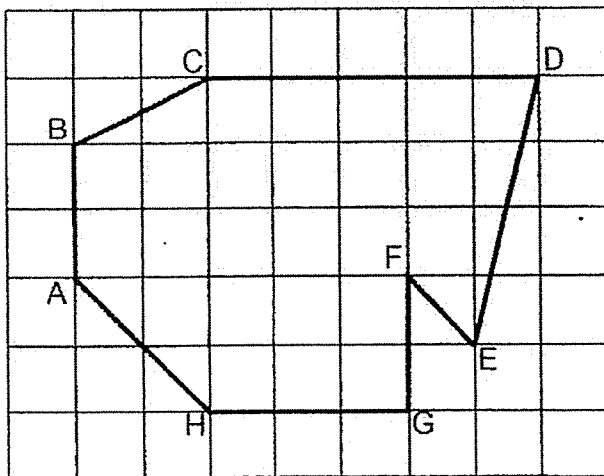
- (1) 1400 g
- (2) 1600 g
- (3) 2400 g
- (4) 2600 g



- 10 Kate reached the playground at the time shown on the clock.  
She stayed at the playground for 1 hour 25 minutes.  
What time did she leave the playground?



- (1) 3.50 p.m.  
(2) 4.10 p.m.  
(3) 5.15 p.m.  
(4) 6.15 p.m.
- 11 A figure formed with straight lines is drawn on a square grid.



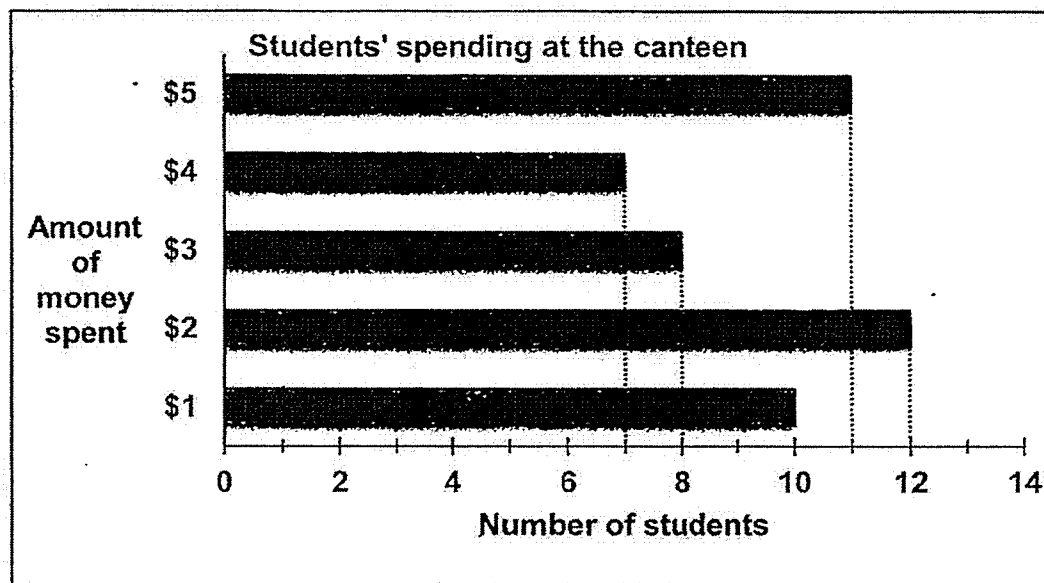
Which of the following statements is true?

- (1) AH is parallel to FE  
(2) AB is parallel to DE  
(3) CD is perpendicular to HG  
(4) BC is perpendicular to AB

- 12 Walter bought 7 pens at \$1.20 each. He gave the cashier \$10.  
How much change did he get?

- (1) \$ 8.80
- (2) \$ 8.40
- (3) \$ 7.40
- (4) \$ 1.60

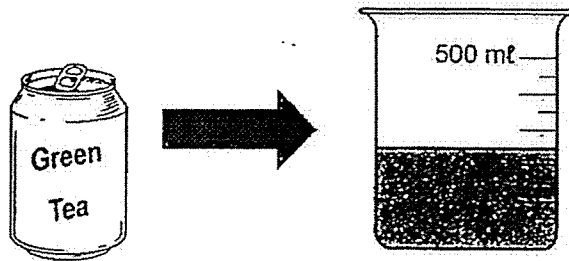
- 13 The bar graph shows the amount of money spent by the students at the school canteen on Friday.



How many students spent less than \$5?

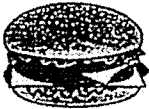
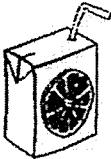
- (1) 11
- (2) 25
- (3) 37
- (4) 48

- 14 Gary pours a can of green tea into the beaker shown below.  
What is the volume of 5 such cans of green tea?



- (1) 250 ml
- (2) 300 ml
- (3) 1 l 250 ml
- (4) 2 l 250 ml

- 15 Aden went to buy some food.  
He spent less than \$5.  
Which two food items did he buy?

| burger                                                                              | french fries                                                                        | orange juice                                                                        | ice cream                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| \$3.80                                                                              | \$2.80                                                                              | \$1.40                                                                              | \$2.50                                                                                |

- (1) french fries and orange juice
- (2) french fries and ice cream
- (3) burger and orange juice
- (4) burger and ice cream

**Section B**

Questions 16 to 30 carry 2 marks each.

Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (30 marks)

- 16 Study the number pattern below. What is the missing number?

8624, 8524, \_\_\_\_\_, 8324, 8224, 8124

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

- 17 Use each digit once to form the smallest 4-digit number.

|   |   |   |   |
|---|---|---|---|
| 6 | 7 | 0 | 4 |
|---|---|---|---|

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

- 18 Arrange the fractions in order, beginning with the smallest.

$$\frac{7}{12}, \quad \frac{3}{8}, \quad \frac{1}{2}$$

Ans: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
smallest



19 What is the value of 7 groups of 9?

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

20  + 532 = 1000. What is the missing number in the box?

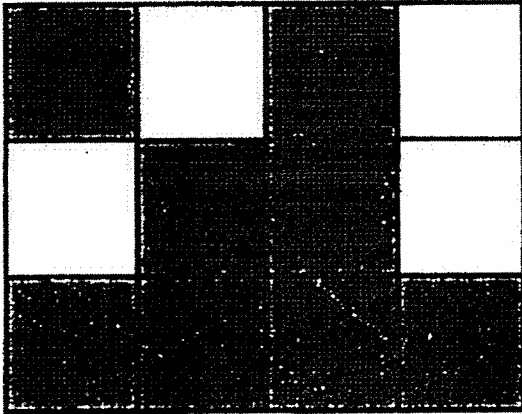
Ans: \_\_\_\_\_

21 Jane wants to buy the toy shown.

Cross out the fewest number of coins she needs to pay for it.



- 22 The figure below is made up of 12 identical squares.  
What fraction of the figure is shaded?  
Give your answer in the simplest form.

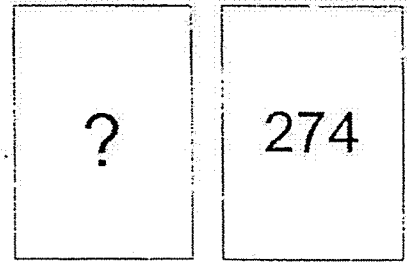


Ans: \_\_\_\_\_

- 23 Find the value of  $\frac{1}{2} + \frac{3}{10}$ .

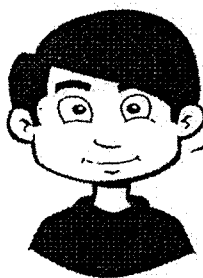
Ans: \_\_\_\_\_

- 24 The difference between two numbers is 50.  
The smaller number is 274.  
What is the greater number?



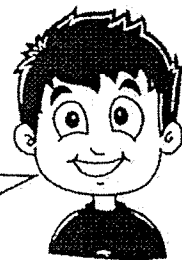
Ans: \_\_\_\_\_

- 25 Ahmad and Roland scored the following points in a shooting game.  
How many more points did Ahmad score than Roland?



Ahmad

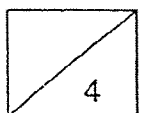
I scored 4506 points.



Roland

I scored 223 points.

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



- 26 Alif has 329 stickers. Liling has 3 times as many stickers as Alif.  
How many stickers does Liling have?

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

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- 27 Janice bakes 157 muffins.  
She packs them into boxes of 6.  
How many muffins are left unpacked?

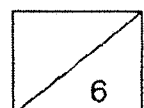
Ans: \_\_\_\_\_

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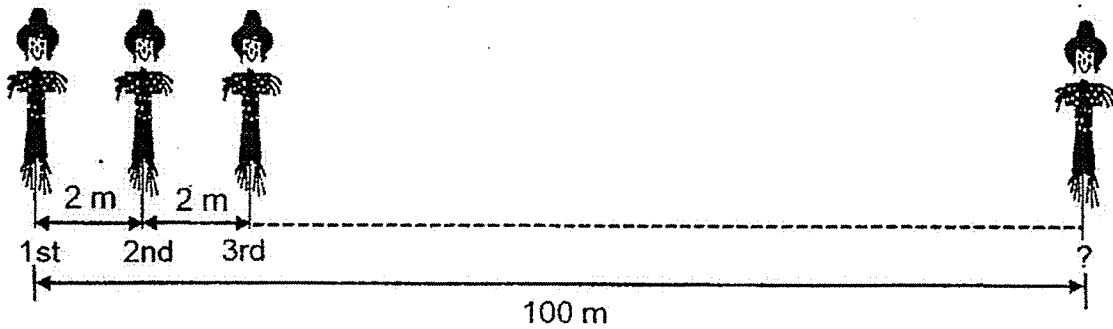
- 28 A delivery man delivered 380 parcels in two days.  
He delivered 209 parcels on the first day.  
How many parcels did he deliver on the second day?

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

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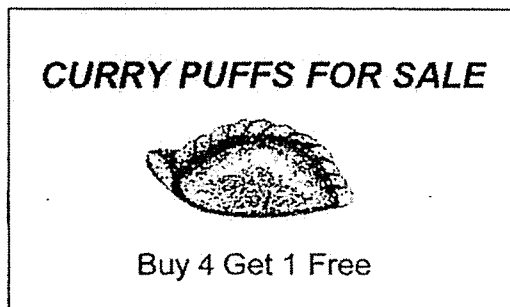


- 29 Farmer Joe placed some identical scarecrows along a straight path. The path is 100 m long. The distance between every two scarecrows is 2 m. How many scarecrows are placed along the path?

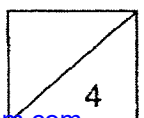


Ans: \_\_\_\_\_

- 30 A stall was having a promotion for its curry puffs. For every 4 curry puffs bought, 1 curry puffs would be given free. Joan paid for 20 curry puffs and received some free ones. How many free curry puffs would she receive?



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



**Section C**

Show your working clearly in the space provided below each question and write your answers and units in the spaces provided. (20 marks)

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31 Uncle Tan sold 3125 apples. He sold 763 more apples than oranges.

- (a) How many oranges did he sell?
- (b) How many oranges and apples did he sell altogether?

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

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

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32 Bala left his house at 10:40 a.m. to go to the library.

He took 15 minutes to walk to the library.

- (a) What time did Bala reach the library?
- (b) He left the library at 1.30 pm. How long did he spend at the library?  
Give your answer in hours and minutes.

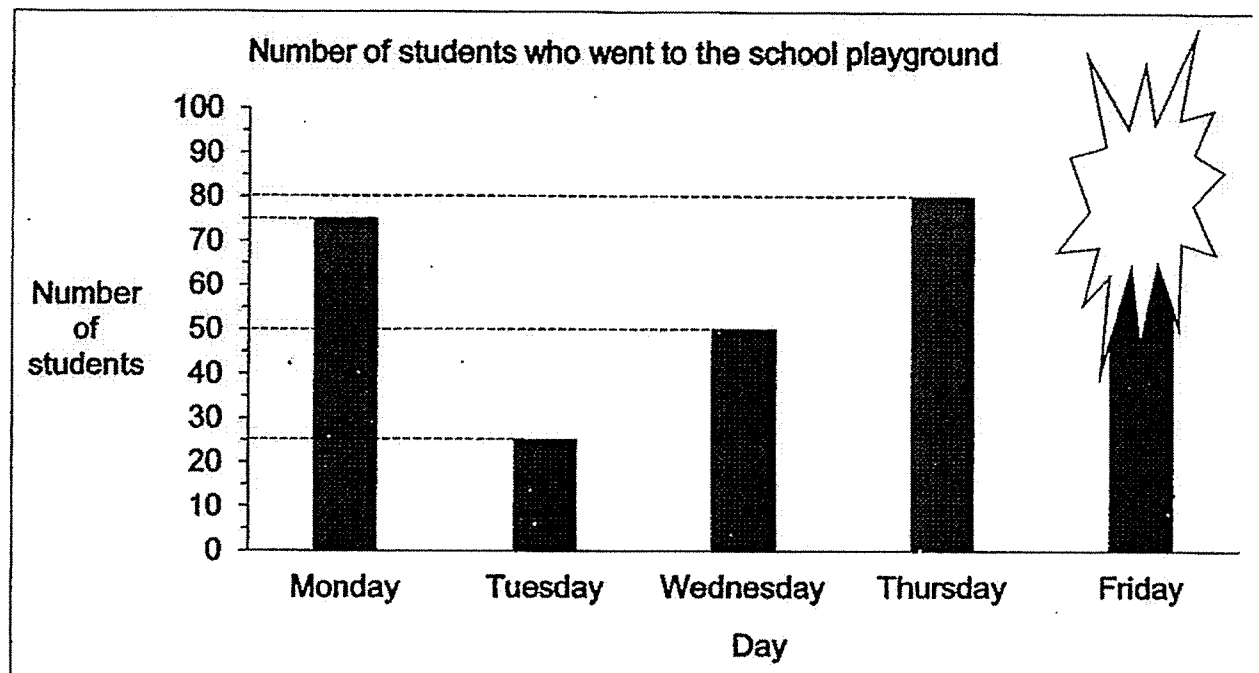
Ans: (a) \_\_\_\_\_ [1]

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

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- 33 The bar graph below shows the number of students who went to the school playground from Monday to Friday.  
Part of the graph was smeared after water was spilt on it.



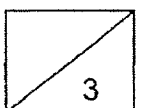
- (a) How many students went to the playground on Tuesday?
- (b) From Wednesday to Friday, 225 students went to the playground.  
How many students went there on Friday?

Ans: (a) \_\_\_\_\_ [1]

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

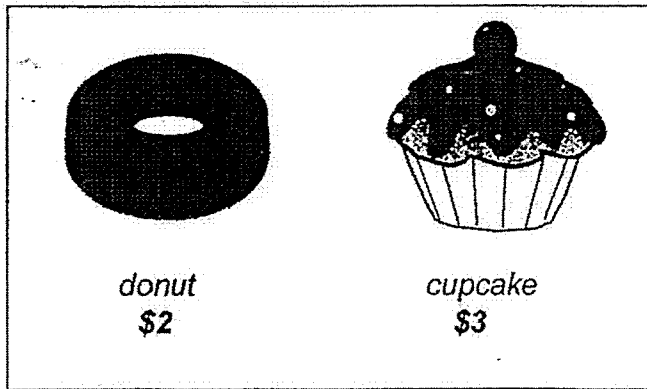
- 34 The mass of a box and 2 similar packets of cookies is 1510 g.  
The mass of 1 packet of cookies is 680 g.  
What is the mass of the box?

Ans: \_\_\_\_\_ [3]





- 35 A bakery sold donuts and cupcakes at the prices shown below.

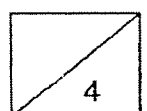


Jacob spent a total of \$180 buying an equal number of donuts and cupcakes.

- (a) How much did 1 donut and 1 cupcake cost altogether?
- (b) How many cupcakes and donuts did he buy altogether?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]



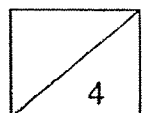
- 36** Gavin collected 4 times as many picture cards as Ray.  
Ray collected 144 less picture cards than Gavin.
- (a) How many picture cards did Ray collect?
- (b) How many picture cards did they collect altogether?

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

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

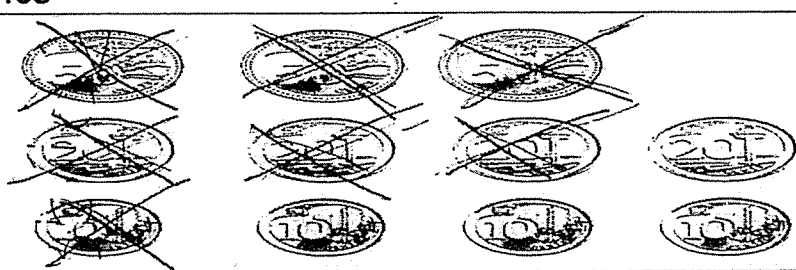
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End of Paper  
Please check your work carefully.



YEAR : 2020  
 LEVEL : PRIMARY 3  
 SCHOOL : AI TONG SCHOOL  
 SUBJECT : MATH  
 TERM : END OF YEAR EXAMINATION

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

|     |                                                                                         |
|-----|-----------------------------------------------------------------------------------------|
| Q16 | 8424                                                                                    |
| Q17 | 4067                                                                                    |
| Q18 | $\frac{3}{8} \frac{1}{2} \frac{7}{12}$                                                  |
| Q19 | 63                                                                                      |
| Q20 | 468                                                                                     |
| Q21 |      |
| Q22 | $\frac{2}{3}$                                                                           |
| Q23 | $\frac{1}{2} + \frac{3}{10} = \frac{5}{10} + \frac{3}{10} = \frac{8}{10} = \frac{4}{5}$ |
| Q24 | $274 + 50 = 324$                                                                        |
| Q25 | $4506 + 223 = 4283$                                                                     |
| Q26 | $329 \times 3 = 987$                                                                    |
| Q27 | $157 \div 6 = 26R1$                                                                     |
| Q28 | $380 - 209 = 171$                                                                       |
| Q29 | $50 + 1 = 51$                                                                           |
| Q30 | $20 \div 4 = 5$                                                                         |
| Q31 | $3125 - 763 = 2362$<br>$2362 + 3125 = 5487$<br>(a) 2362<br>(b) 5487                     |
| Q32 | (a) 10.55a.m.<br>(b) 2h35min                                                            |

|     |                                                                                                                   |
|-----|-------------------------------------------------------------------------------------------------------------------|
| Q33 | $80+50=130$<br>$225-130=95$<br>(a)25<br>(b)95                                                                     |
| Q34 | $680 \times 2 = 1360$<br>$1510 - 1360 = 150g$                                                                     |
| Q35 | $2+3=5$<br>$180 \div 5 = 36$<br>$36 \times 2 = 72$<br>(a)\$5<br>(b)72                                             |
| Q36 | $3u \rightarrow 144$<br>$1u \rightarrow 144 \div 3 = 48$<br>$144 + 48 = 92$<br>$192 + 48 = 240$<br>(a)8<br>(b)240 |