



AI TONG SCHOOL

2010

CONTINUAL ASSESSMENT 1

PRIMARY 6

MATHEMATICS  
Paper 1  
(Booklet A and B)

DURATION : 50 min

DATE : 2 March 2010

INSTRUCTIONS

Do not open the booklet until you are told to do so.  
Follow all instructions.  
Answer all questions.  
You are not allowed to use a calculator.

Name : \_\_\_\_\_ (      )

Class : Primary 6 (      )

Marks:

Parent's Signature: _____
Date : _____

Paper 1	40
Paper 2	60
Total	100

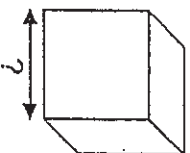
Paper 1

Booklet A

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet (20 marks)

- 1 Which one of the following is the best approximate value of  $13\frac{7}{100} \times 8\frac{8}{10}$  ?
- (1)  $13 \times 8$
  - (2)  $13 \times 9$
  - (3)  $14 \times 8$
  - (4)  $14 \times 9$

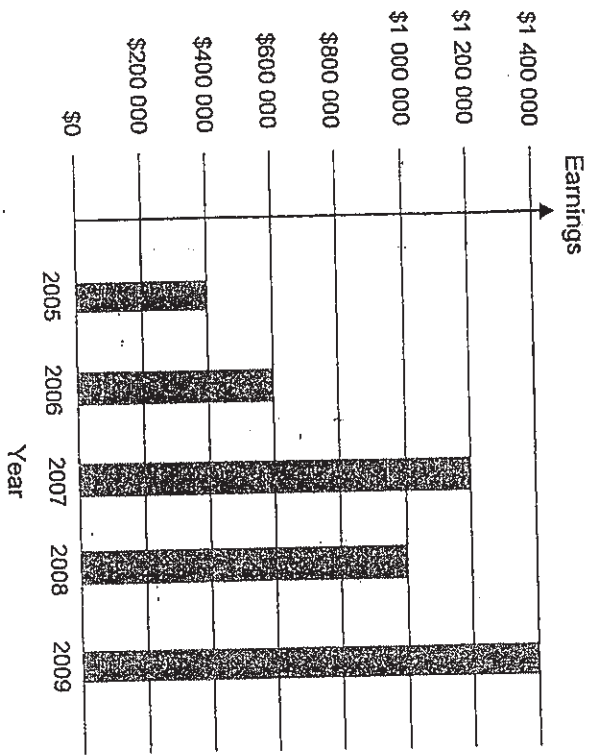
- 2 What is the length of one edge of the cube if its volume is  $216 \text{ cm}^3$  ?
- (1) 16 cm
  - (2) 8 cm
  - (3) 6 cm
  - (4) 4 cm



- 3 30% of a number is 60. What is the number?
- (1) 18
  - (2) 42
  - (3) 180
  - (4) 200

Use the information below to answer Questions 4 and 5.

The bar graph below shows the earnings made by an automobile company from 2005 to 2009.



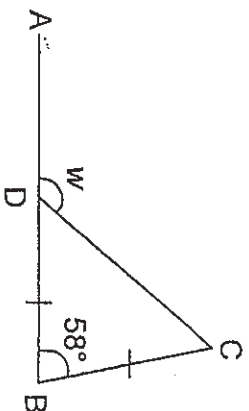
4 In which year was the increase in the earnings the greatest?

- (1) 2005
- (2) 2006
- (3) 2007
- (4) 2009

5 Find the difference in earnings between 2006 and 2009.

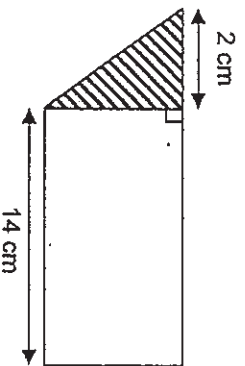
- (1) \$200 000
- (2) \$400 000
- (3) \$600 000
- (4) \$800 000

- 6 The figure is not drawn to scale. BCD is an isosceles triangle. Find  $\angle w$ .



- (1)  $58^\circ$
- (2)  $61^\circ$
- (3)  $119^\circ$
- (4)  $122^\circ$

- 7 The figure below is a parallelogram. When the shaded triangle is cut off, the remaining area is  $42 \text{ cm}^2$ . What is the area of the shaded triangle?

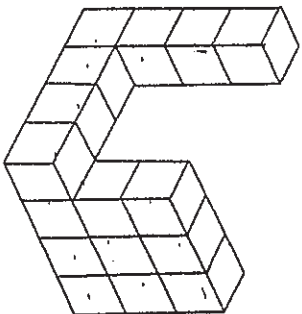


- (1)  $6 \text{ cm}^2$
- (2)  $7 \text{ cm}^2$
- (3)  $3 \text{ cm}^2$
- (4)  $14 \text{ cm}^2$

- 8 The sides of a triangle are in the ratio of  $6 : 7 : 11$ . What fraction of the perimeter is the length of the shortest side?

- (1)  $\frac{1}{4}$
- (2)  $\frac{1}{3}$
- (3)  $\frac{6}{11}$
- (4)  $\frac{6}{7}$

- 9 The solid is made up of 2-cm cubes. There are no hidden cubes. What is the volume of the solid?



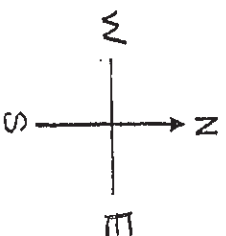
- (1)  $16 \text{ cm}^3$
- (2)  $32 \text{ cm}^3$
- (3)  $64 \text{ cm}^3$
- (4)  $128 \text{ cm}^3$

- 10 Simplify  $3y - 4 - y + 8$ .

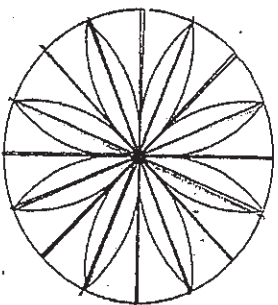
- (1)  $2y - 4$
- (2)  $2y + 4$
- (3)  $4y - 4$
- (4)  $4y + 4$

- 11 Leon stands facing west. He turns clockwise to face south-west. Through what angle has he turned?

- (1)  $45^\circ$
- (2)  $135^\circ$
- (3)  $225^\circ$
- (4)  $315^\circ$



- 12 How many lines of symmetry can be found in the figure below?



- (1) 16
- (2) 12
- (3) 8
- (4) 4

- 13 The average of 3 numbers is 72. The sum of two of the numbers is  $\frac{1}{6}$  of the sum of all the three numbers. What is the third number?

- (1) 12
- (2) 36
- (3) 60
- (4) 180

- 14 A book fair was held over two weeks. In the second week, the number of books sold was increased by 20% to 480. How many books were sold in the first week of the book fair?

- (1) 96
- (2) 384
- (3) 400
- (4) 576

15. An eraser cost  $x$  cents and a pen cost twice as much. Alex received some change after paying the cashier a five-dollar note for 3 pens and 5 erasers. Express the amount of change Alex received in terms of  $x$ .

- (1)  $(5 - 8x)$  cents
- (2)  $(5 - 11x)$  cents
- (3)  $(500 - 8x)$  cents
- (4)  $(500 - 11x)$  cents

**Booklet B**

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

- 16 The page numbers on the two facing pages of a storybook when multiplied together give 110. What are the page numbers?

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

---

- 17 In the numeral 49 853, what is the difference between the value of the digits "9" and "3" ?

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

---

- 18 Express  $1\frac{7}{8}$  as a decimal, correct to 2 decimal places.

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

---

- 19 A jug contains  $\frac{4}{5}$  l of water. A cup can hold  $\frac{1}{10}$  l of water. How many cups do I need to hold all the water from the jug if I fill each cup to its brim?

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

---



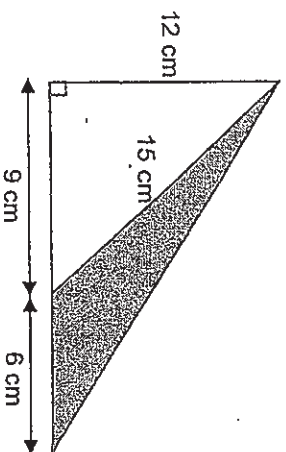
20 The table below shows the parking charges at a car park.

PARKING CHARGES	
For the first hour	\$1.50
For every additional $\frac{1}{2}$ hour or part thereof	\$1.00

Mr Lim parked his car from 11.00 a.m. to 12.38 p.m. How much did he pay?

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

21 What is the area of the shaded triangle?



Ans: \_\_\_\_\_ cm<sup>2</sup>

22 Write down the fraction exactly half-way between  $\frac{4}{9}$  and  $\frac{5}{9}$  in its simplest form.

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

- 23 A car can travel 164 km on 18 litres of petrol. What distance can it travel on a full tank of 54 litres at a constant speed?

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

- 24 Express 450 g as a percentage of 1.5 kg.

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

- 25 Jenny baked 500 muffins. She kept  $2p$  of them and divided the remainder equally among 4 friends. Find the number of muffins each of her friends received in terms of  $p$ .

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

Total:



Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

26 Samuel's scores for his Science tests are shown in the table below.

Test 1	80
Test 2	76
Test 3	?

If he wants to achieve an average score of 81 marks for the 3 tests, how many marks should he score for the third test?

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

---

27 Ali has an equal number of ten-cent coins and fifty-cent coins. If their total value is \$14.40, what is the total number of coins Ali has?

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

---

- 28 A 2-digit number when divided by 12 gives a remainder of 4. What is the largest possible value of the number?

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

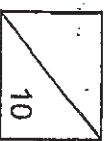
- 29 A shopkeeper sold 24 goldfish and had 36 left. What percentage of the fish did he sell?

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

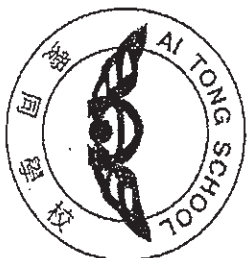
- 30 The ratio of the length of a rectangle to its breadth is 7 : 2. The perimeter of the rectangle is 36 cm. Find its breadth.

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

Total:



11



AI TONG SCHOOL

2010

CONTINUAL ASSESSMENT 1

PRIMARY 6

MATHEMATICS  
Paper 2

DURATION : 1 h 40 min

DATE : 2 March 2010

INSTRUCTIONS

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

Follow all instructions.

Answer all questions.

You are allowed to use a calculator.

Name : \_\_\_\_\_ (      )

Class : Primary 6 (      )

Marks:

Paper 2	60
---------	----

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

Date : \_\_\_\_\_

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

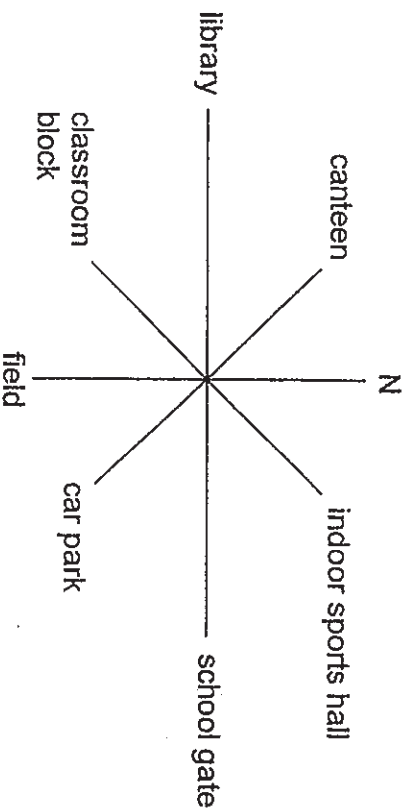
Do not write in this space

(10 marks)

1 What is the ratio of the area of a 5-cm square to that of a 10-cm square?

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

2 The figure below is an 8 point compass. Alieng is facing the classroom block. Where would she be facing if she turns  $135^\circ$  anti-clockwise?



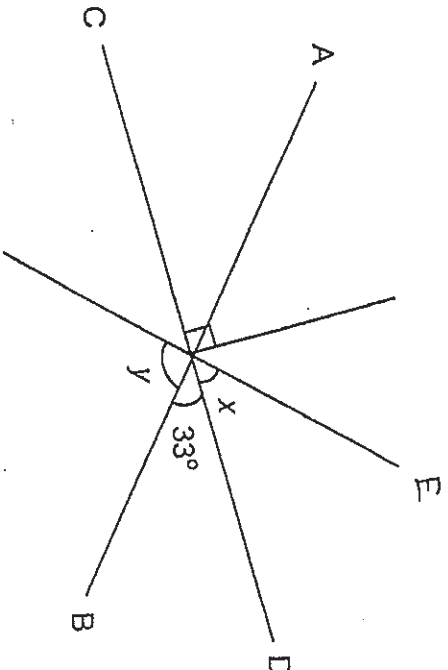
Ans: \_\_\_\_\_

1

3

AB and CD are straight lines.  $\angle Y$  is twice the size of  $\angle X$ . Find  $\angle Y$ .  
The figure is not drawn to scale.

Do not write in  
this space



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

4

$\frac{1}{3}$  of the price of a pair of soccer boots is the same amount as  $\frac{2}{5}$  of the price of a soccer ball. What is the ratio of the price of the soccer ball to the price of the pair of soccer boots?

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

2

Do not write in  
this space

- 5 Tom is  $\frac{1}{3}$  as old as David now. In 6 years' time, the ratio of Tom's age to David's age will be 3 : 5. How old is David now?

Ans: \_\_\_\_\_ years old



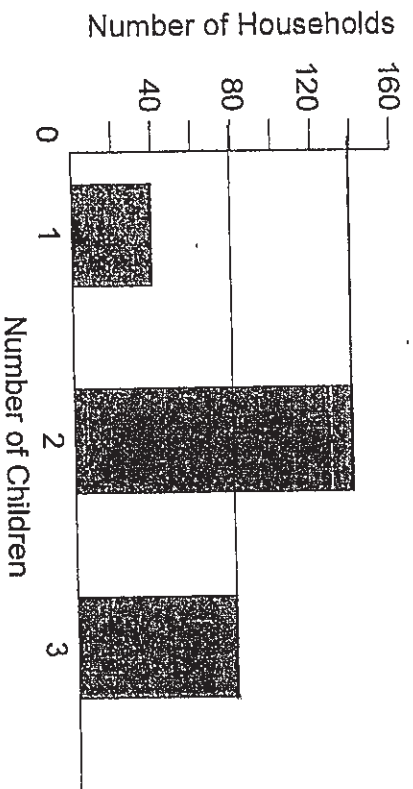
Do not write in  
this space

For questions 6 to 18, show your working clearly in the space provided for each question and write the answers in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (50 marks)

- 6 There were an equal number of red and white roses in a flower shop. After 46 red roses had been sold, three times as many white roses as red roses were left. How many roses were there in the shop at first?

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

- 7 The graph below shows the distribution of children per household in a particular estate.



- (a) How many households in the estate have more than 1 child?  
(b) Find the total number of children in the estate.

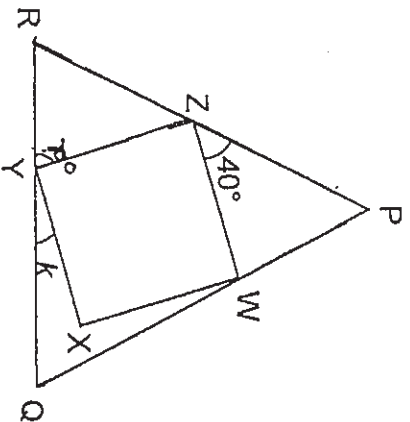
Ans: (a) \_\_\_\_\_ [1]

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

4

- 8 In the figure below, not drawn to scale, PQR is an equilateral triangle while WXYZ is a square. Find angle  $k$ .

Do not write in this space



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



Do not write in  
this space

- 9 Alfie and Ken went to a book shop. Alfie bought 3 story books at \$4.80 each and a dictionary at \$25.60. He spent 25% more than Ken. Ken bought only comics at \$6.40 each. How many comic books did Ken buy?

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

10 The tickets for a show are priced at \$10 and \$5. The number of

ten-dollar tickets available is  $1\frac{1}{2}$  times the number of five-dollar tickets.

5 out of 6 ten-dollar tickets and all the five-dollar tickets were sold. The amount of money collected from the sale of the tickets was \$5600. How much more would have been collected if all the tickets were sold?

Do not write in  
this space

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





11 There were 1980 members in a reading club last year. This year, the

number of male members has been reduced by  $\frac{1}{10}$  and the number of female members has been reduced by 25%. There are as many male members as female members now.

- a) How many male members are there in the club now?
- b) What is the total membership now?

Do not write in  
this space

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

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

Do not write in  
this space

- 12 During a sale, Shop X and Shop Y were selling similar blouses at \$28 and \$21 respectively. Before this sale, the price of blouses was the same in both shops. A sum of \$170 could be saved by buying 2 blouses from each shop during the sale. How much was the discount per blouse in Shop X?

Ans: \_\_\_\_\_ [4]

Do not write in  
this space

- 13** Joanne had a total of 36 wires and strings. Each wire is 4 cm long and each string is 3 cm long. The total length of the wires is 25 cm longer than the total length of the strings. How many more wires than strings did she have?

Ans: \_\_\_\_\_ [4]



10

Do not write in  
this space

- 14 Three boxes A, B and C contain 50 marbles each. Some marbles are moved from Box A and Box B to Box C so that the number of marbles in Box A, Box B and Box C are in the ratio 2 : 3 : 5. How many marbles are moved to Box C?

Ans: \_\_\_\_\_ [4]



15

The ratio of the number of stickers Alex had to the number of stickers Beng Han had was 1 : 3. After each of them received 25 stickers, the ratio became 3 : 4. How many stickers did they have altogether at first?

Do not write in  
this space



Ans: \_\_\_\_\_ [4]

12

- 16 Albert and Benny had \$282. Benny had \$4 more than Albert. Benny spent  $\frac{1}{2}$  as much as Albert and was left with twice as much as Albert. How much did Benny spend?

Do not write in  
this space

Ans: \_\_\_\_\_ [4]

**17** Ai Hua, Betty, Carl and Daniel had some savings. Ai Hua increased her savings by 80%, Betty decreased hers by 50% and Carl gave  $\frac{1}{5}$  of his savings to Daniel. They each had \$630 then.

- (a) How much savings had Ai Hua at first?
- (b) Find the total amount of savings that the four children had at first.

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

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



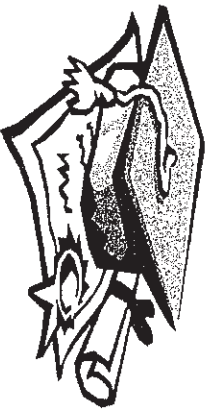
18

A company paid a total of \$23 600 in salaries to 17 female and some male employees. Each male employee received \$500 more than each female employee. There were 14 more female employees than male employees. Find the difference in the total amount of money received by the male employees and the female employees.

Do not write in  
this space

Ans: \_\_\_\_\_ [5]

**END OF PAPER**  
**CHECK YOUR WORK CAREFULLY !**

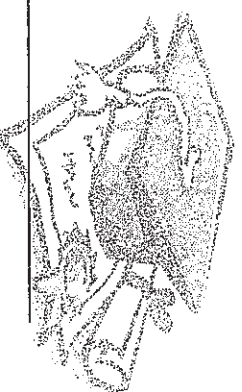


# ANSWER SHEET

**EXAM PAPER 2010**

**SCHOOL : AI TONG PRIMARY**  
**SUBJECT : PRIMARY 6 MATHEMATICS**

**TERM : CA1**



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

16)10 and 11      17)8997      18)1.88      19)8 cups      20)\$3.50

21)36cm<sup>2</sup>      22)  $\frac{1}{2}$       23)492km      24)30%      25)(500-2p/4)

26)87 marks      27)48 coins      28)88      29)40%      30)4cm

## Paper 2

1)1:4	2)school gate
3)98°	4)5:6
5)9 years old	6)2u→46 u→23 23+46=69 69x2=138 roses.
7)a)160-120=40 40÷2=20 120+20=140 140+80=220 households. b)140x2=280 80x3=240 280+240+40=560 children.	8)180° -40° =140° ∠RZY→140° -90° =50° 50° +60° =110° ∠RYZ→180° -110° =70° 90° +70° =160° ∠K→180° -160° =20°

<p>9) <math>1u \rightarrow 4.80</math>  <math>3u \rightarrow 14.40</math>  <math>14.40 + 25.60 = 40</math>  <math>40 / 125 \times 100 = 32</math>  <math>32 \div 6.40 = 5</math> comic books.</p>	<p>10) <math>(5 \times 10) 50 : 20 (4 \times 5)</math>  <math>20 + 50 = 70</math>  <math>5600 \div 70 = 80</math>  <math>80 \times \\$10 = \\$800</math></p>
<p>11) a) <math>10u + 12u \rightarrow 22u</math>  <math>22u \rightarrow 1980</math>  <math>u \rightarrow 90</math>  <math>9u \rightarrow 810</math> male members.  b) <math>22u - 4u = 18u</math>  <math>18u \rightarrow 18 \times 80 = 1620</math> people.</p>	<p>12) <math>\\$28 - \\$21 = \\$7</math>  <math>(\\$85 + \\$7) \div 2 = \\$46</math> (discount at shop Y)  Discount in shop X = <math>\\$46 - \\$7 = \\$39</math>.</p>
<p>13) wire string  <math>18 \times 4 = 72</math> <math>18 \times 3 = 54</math>  <math>21 \times 4 = 84</math> <math>15 \times 3 = 45</math>  <math>20 \times 4 = 80</math> <math>16 \times 3 = 48</math>  <math>19 \times 4 = 76</math> <math>17 \times 3 = 51</math>  Ans: <math>19 - 17 = 2</math> more wires.</p>	<p>Difference  18 X  39 X  32 X  25 ✓</p>
<p>14) <math>1u \rightarrow 50</math>  <math>3u \rightarrow 150</math>  <math>2 + 3 + 5 \rightarrow 10u</math>  <math>10u \rightarrow 150</math>  <math>u \rightarrow 15</math>  <math>5u \rightarrow 75</math>  <math>75 - 50 = 25</math> marbles.</p>	<p>15) <math>6 - 1 \rightarrow 5u</math>  <math>5u \rightarrow 25</math>  <math>1u \rightarrow 5</math>  <math>1 + 3 = 4u</math>  <math>4u \rightarrow 20</math> stickers.</p>
<p>16) A had <math>\rightarrow (282 - 4) \div 2 = 139</math>  B had <math>\rightarrow (282 + 4) \div 2 = 143</math>  B left: B spent  98 : <u>45</u></p>	<p>17) a) <math>630 / 180 = \\$350</math>  b) Betty <math>\rightarrow 630 \times 2 = 1260</math>  Carl <math>\rightarrow 630 / 4 \times 5 = 787.50</math>  Daniel <math>\rightarrow 630 / 4 \times 3 = 472.50</math>  <math>350 + 1260 + 787.50 + 472.50 = \\$2870</math></p>
<p>18) <math>17 - 14 = 3</math>  <math>3 + 17 = 20</math>  <math>500 \times 3 = 1500</math>  <math>23600 - 1500 = 22100</math>  <math>20u \rightarrow 22100</math>  <math>u \rightarrow 1105</math>  <math>1105 \times 17 = 18785</math>  <math>1105 + 500 = 1605</math>  <math>1605 \times 3 = 4815</math>  <math>18785 - 4815 = \\$13970</math></p>	