Time allowed：55 minutes

Topic		
上學期重溫 Multiplication Division Multiples Factors		下學期課題 Four Arithmetic Operations Perimeter Area
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2	Fill in the blanks	22 Marks
3	Multiple choice	16 Marks
4	Pictures	13 Marks
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6	Long questions	20 Marks
	Total：	100 Marks

（1） Calculation (16 marks, 2 marks each)　　　　　　　Answer

1.　$18 + 53 \div 6 \times 12$　　　　　　　<u>124</u>

　　題解：$53 \div 6 \times 12 = 53 \times 12 \div 6$

2.　$56 \times 7 - 64 \div 2$　　　　　　　<u>360</u>

3.　$83 + 7 \times 333 - 99$　　　　　　　<u>2315</u>

4.　$7 \times 18 \times 53$　　　　　　　<u>6678</u>

5.　$29 \div 16 \times 17$　　　　　　　<u>30⋯13</u>

　　題解：$29 \div 16 \times 17 = 29 \times 17 \div 16$

6.　$91 - \bigstar \div 19 = 48$　　　　　　　<u>★=817</u>

7.　$15 \times \bigstar + 57 \div \bigstar = 64$　　　　　　　<u>★=3</u>

　　題解：由於$57 \div \bigstar$沒有餘數，答案必定是 57 的因數，
　　　　　只要把 57 的 4 個因數代入數式中測試便可找出答案。

8.　374×90　　　　　　　<u>33660</u>

（2）　Fill in the blanks (22 marks)

1.　The sixteenth multiple of 17 is <u>272</u>.(2 marks)

2.　Within 180, there are <u>12</u> multiples of 15. (2 marks)

3.　Factors of 119 are : <u>1、7、17、119</u>. (4 marks, 1 mark each.)

4.　The length and width of a quadrilateral are equal, this quadrilateral is a <u>square</u>. (2 marks)

5.　The perimeter of a rectangle is 56cm. If its length is 20cm, the width is <u>8cm</u>.(2 marks)

6.　The length of a rectangle is triple of its width. If the area is 507cm^2, the length is <u>39cm</u>. (2 marks)

　　題解：面積=長×闊，由於長度是闊度的三倍，可以列出算式：$3 ×$ 闊 $×$ 闊 $= 507$ 把 507 除以 3 可知闊×闊=169，再用試數法試出$13 × 13 = 169$，因此闊度是 13 厘米，長度是$13 × 3 = 39$厘米。

7.　The difference between the 18th and the 28th multiple of 37 is <u>370</u>. (2 marks)

8.　If 74 is divisible by ★, the possible value(s) of ★ is/are : <u>1、2、37、74</u>. (4 marks, 1 mark each.)

9.　The area of a square is 16cm^2, if the side length is double, the new area is <u>64cm^2</u>. (2 marks)

（3） Multiple choice (16marks, 2 marks each)

1. $399 \div \star = 36 \ldots 3$, $\star = ?$
   ○A. 3   ●B. 11   ○C. 13   ○D. 36

2. If quotient is 31, dividend is 988, remainder is 27, divisor is ?
   ○A. 27   ●B. 31   ○C. 58   ○D. 988

3. If there are 4 factors of Y, the 1st, 2nd and 3rd factors are 1, 5 and 25 respectively. Y is
   ○A. 25   ○B. 75   ●C. 125   ○D. 625

4. If $22 - 11 \star 7 + 79 = 24$, $\star$ is
   ●A. $\times$ ○B. $\div$ ○C. $+$ ○D. $-$

5. If $87 \times 7 - 612 \star 2 = 296$, $\star$ is
   ○A. $+$ ○B. $-$ ○C. $\times$ ●D. $\div$

6. If the side length of a square is double, its perimeter will
   ○A. remain unchanged   ●B. double   ○C. triple   ○D. be four times

7. A square piece of cardboard measuring 48cm side length. Peter cuts out rectangles of 6×8cm from the cardboard. He can cut out how many rectangles at most ?
   ○A. 12   ○B. 36   ○C. 2304   ●D. 48

8. The total value of the 5-dollar coins is $575. The total value of the 2-dollar coins is $360. How many coins are there in total ?
   ○A. 115   ○B. 180   ●C. 295   ○D. 935
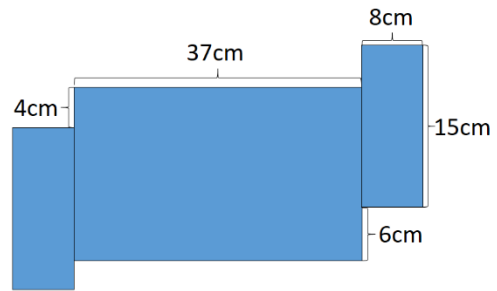
（4） Pictures (13 marks)

1. The figure on the right is formed by a big rectangle and two equal little rectangles. The big rectangle's width is 16cm.

   (a) The total perimeter of the figure

       is   154   cm. (2 marks)

   (b) The total area of the figure

       is   832   cm². (2 marks)

   題解：周界是 37+37+6+4+15+8+8+15+8+8+5+3=154 厘米
            面積是 $15 \times 8 \times 2 + 37 \times 16 = 832$ 平方厘米
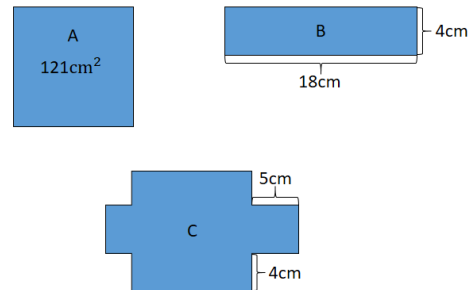
2. Figure A and B combine to form figure C.

   (a) The side length of figure A is   11cm . (3 marks)

   (b) The total perimeter of figure C

       is   58 cm . (3 marks)

   (c) The total area of figure C

       is   149cm² . (3 marks)

   注意：第 2 題每個答案 3 分，其中答案 2 分，單位佔 1 分。

(5) Short questions (13 marks)   Answer

1. The 13th and the 15th multiples of ★ are 221 and 255 respectively, ★ is ?
   (2 marks)   17

2. The perimeter of a rectangle is 24cm. If the length is 3 times its width, the length is ? (2 marks)   9cm

3. If the side length of a square is increased by 7cm, its area is 121cm². The original side length is ? (2 marks)   4cm

4. The price of adult and children's tickets are $43 and $27 respectively. If Tom wants to buy 3 adult and 4 children tickets, how much should he pay ?
   (2 marks) $237

5. The difference between the quotient and the remainder of $731 \div 5$ is ?
   (2 marks)   145

6. The length and width of a rectangle are 10cm and 4cm respectively. The side length of a square is 8cm. The difference between these two quadrilaterals' area is ? (3 marks)   24cm²

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(6) Long questions (20 marks, 4 marks each)

1. There are a total of 132 red pens and blue pens in three boxes. The number of red and blue pens in each box are the same. If the number of red pens is three times that of blue pens. How many red pens in one box?

$132 \div 3 \div 4 \times 3$

$= 33$

∴ There are 33 red pens in one box.

2. The price of one box of eggs is \$43. One box contains two dozen eggs. If Peter had 408 eggs, how much could he get after selling them in boxes?

$408 \div (12 \times 2) \times 43$

$= 731$

∴ He could get \$731.

3. The area of square A is 144cm². There is a rectangle with the same perimeter as square A. If the difference between the rectangle's length and width is equal to its width, how long is the width ?

$144 \div 12 \times 4 \div 2 \div 3$

$= 8$

∴ The width of the rectangle is 8cm.
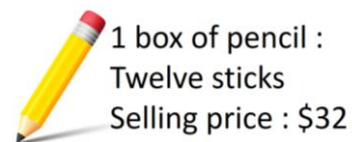
題解：(1)先用144÷12求得正方形邊長是 12 厘米

(2)12×4求得正方形與長方形的周界同樣是 48 厘米

(3)48÷2求得長闊相加是 24 厘米

(4)由於長方形的長闊差距等於闊度，因此長度是闊度的 2 倍，24÷3便可找出闊度。

4. Peter used a \$500 note to buy pencils and the change was \$84. How many sticks of pencil did he buy?

$(500 - 84) \div 32 \times 12$

$= 156$

∴ He bought 156 pencils.

1 box of pencil :
Twelve sticks
Selling price : \$32

5. In a promotion, Sam buys 72 boxes of apples. How much should he pay ?

$72 \div (5 + 1) \times (5 \times 15)$

$= 900$

∴ He should pay \$900.

\$15 for 1 box of apples
Big sale : Buy 5 get 1 free

End

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