

Multiple Choice 多項選擇題

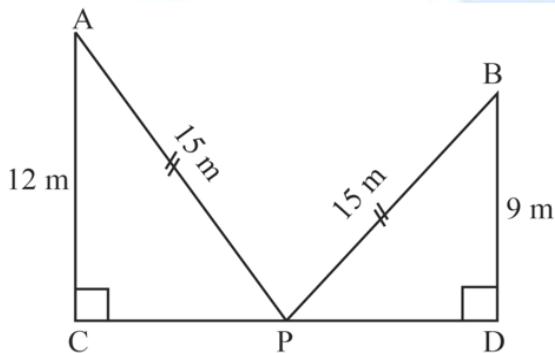
1) Johnny played 13 games 1st week, 14 games 2nd week, and 15 games 3rd week. Find the total number of games Johnny played. 約翰尼第一星期打了13場遊戲，第二星期打了14場比賽，第三星期打了15場比賽。找出約翰尼玩的遊戲總數。

- A) 22 B) 32
C) 42 D) 52

2) If $x + y = 3$, $y + z = 5$ and $z + x = 6$, find the value of $x + 2y + 3z$
如果 $x + y = 3$, $y + z = 5$ 且 $z + x = 6$ ，求 $x + 2y + 3z$ 的值

- A) 22 B) 12
C) 19 D) 15

3) Find the value CD =? 求值 CD =?



- A) 15 B) 17
C) 25 D) 21

4) Solve: 求解:

$$\frac{\sqrt{2} \cdot \sqrt[3]{4}}{\sqrt[3]{2} \cdot \sqrt{8}} = ?$$

- A) 1 B) 2 C) $\frac{1}{\sqrt{2}}$ D) $\frac{1}{2}$

5) Find value of x? 找到 x 的值?

$$\frac{2}{x} + \frac{x}{x+1} + \frac{x-2}{x} = \frac{5}{4}$$

- A) $\frac{2}{3}$ B) 1
C) $\frac{1}{3}$ D) 0,5

6) Solve: 求解:

$$3^{x+1} = 5 \Rightarrow 25^{\frac{1}{x+1}} = ?$$

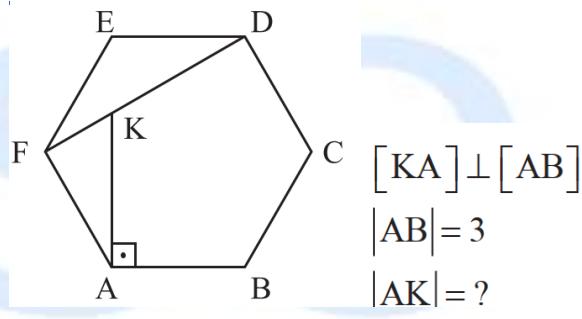
- A) 9 B) 15
C) 27 D) 25

7) Simplify: 簡化:

$$\frac{xy^2 - 4x - 3y^2 + 12}{xy - 3y - 2x + 6} + \frac{xy - 2x - y + 2}{x - 1} = ?$$

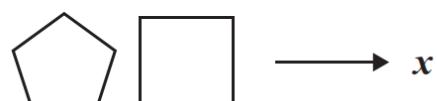
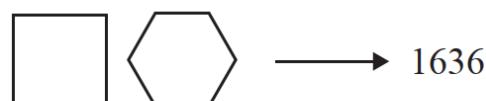
- A) $2(y - x)$ B) $2y$
C) $2y + 4$ D) $2y - 4$

8) ABCDEF regular hexagon,
ABCDEF 正六邊形，



- A) $\frac{3\sqrt{3}}{4}$ B) $\sqrt{3}$
C) $2\sqrt{3}$ D) 3

9) Find the value of x . 求出 x 的值。



- A) 916 B) 2564
C) 1625 D) 2516

10) The number sequence below is written according to a rule. Accordingly, what is the value of "x"?

下面的數列是按一定規律寫的。因此，“ x ”的值是多少？

3, 6, 24, 144, 1152, x

- A) 1720 B) 14400
C) 5760 D) 11520

11) In the addition and multiplication tables above, the letters a, b and c each stand for a positive number. Accordingly, what is the value of b ?

在上面的加法表和乘法表中，字母a、b、c分別代表一個正數。因此， b 的值是多少？

+	a	b	c
a		8	
b			2a

\times	a	b	c
a			3

- A) 1 B) 4
C) 2 D) 5

12) A father is 38 years old and his son is 13 years old. In how many years will the father be twice as old as his son will?

父親38歲，兒子13歲。多少年後父親的年齡是兒子的兩倍？

- A) 10 B) 13
C) 12 D) 16

13) Solve: 求解:

$$\text{Star} + \text{Star} + \text{Star} = 18$$

$$\text{Clock} + \text{Clock} + \text{Star} = 14$$

$$\text{Clock} + \text{Clock} - \text{Clock} = 02$$

$$\text{Clock} + \text{Clock} = ?$$

- A) 6 B) 7
C) 5 D) 8

14) Solve: 求解:

$$\left(2\frac{1}{3} - 1\frac{2}{5}\right) \div 1\frac{1}{3}$$

$$2\frac{1}{3} - 1\frac{2}{5} \div 1\frac{1}{3}$$

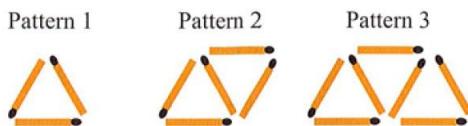
- A) 1 B) $\frac{6}{11}$
 C) $\frac{1}{15}$ D) $\frac{3}{5}$

15) Find next number: 1, 27, 125, 343, ?
 找到下一個數字 : 1, 27, 125, 343, ?

- A) 625 B) 720
 C) 729 D) 561

16) With given rules, find the number of sticks in pattern 5.

根據給定的規則，找出模式 5 的棍子數量。



- A) 9 B) 14
 C) 11 D) 15

17) Find: 找出:

$$\frac{a}{b} = \frac{c}{3d} = \frac{2e}{f} = 2$$

$$\Rightarrow \frac{2b + 7d - \frac{1}{2}}{2a + \frac{7c}{3} - e} = ?$$

- A) -2 B) 2
 C) $\frac{1}{2}$ D) $-\frac{1}{2}$

18) What is the value of (x,y)?

(x,y) 的值是多少?

$$x^2 + y^2 = 17$$

$$y = x - 5$$

- A) (5, 17) B) (1, 5)
 C) (1, -4) D) (-2, 4)

19) What is the value of x=?
 x= 的值是多少?

$$\frac{x^2 - 5x}{x^2 + 3x - 10} = \frac{6}{10 - 3x - x^2}$$

- A) 3 B) 5
 C) 4 D) 1

20) Find 找出x = ?

$$\frac{6 \cdot \frac{1}{2} + 4 \cdot 3 + 8 \cdot x}{\frac{1}{2} + 3 + x} = \frac{62}{11}$$

- A) 1 B) 2
 C) 0,5 D) 4

21) Solve: 求解:

$$\frac{3\frac{1}{3} \cdot 1,9 + 19,5 : 4\frac{1}{2}}{\frac{62}{75} - 0,16} : \frac{3,5 + 4\frac{2}{3} + 2\frac{2}{15}}{0,5 \left(1\frac{1}{20} + 4,1 \right)}$$

Answer回答: _____

22) What is the value of $x + y = ?$

$x + y =$ 的值是多少？

$$\begin{cases} x - 5y = -15 \\ 11x + 5y = 45 \end{cases}$$

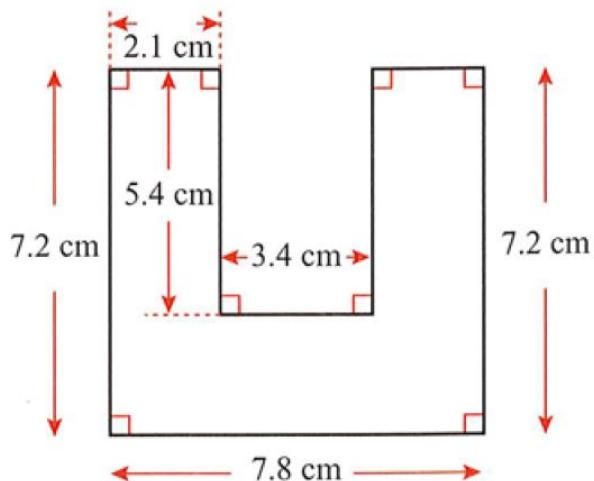
Answer回答: _____

23) Find the value of perimeter – area.

$P - A = ?$

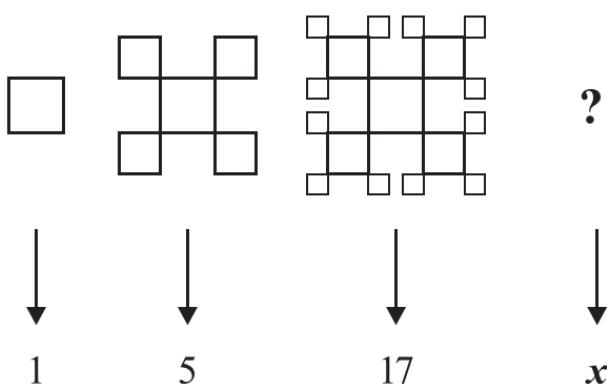
求周長-面積的值。

$P - A = ?$



Answer回答: _____

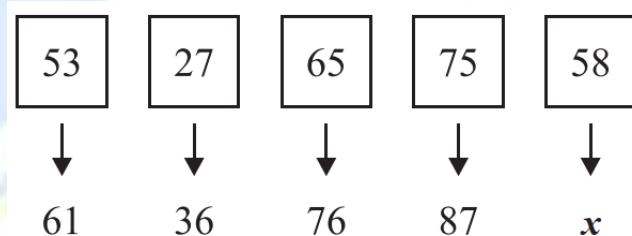
24) Find the value of x . 求出 x 的值。



Answer回答: _____

25) With the numbers in the squares, the numbers below are obtained according to a rule. Accordingly, what is the value of x ?

加上方塊中的數字，按照一定的規律得到下面的數字。因此， x 的值是多少？



Answer回答: _____