**X1** score

**1** ( ) $32 \times 8 - 145 = ?$
(A) 256  (B) 156  (C) 131  (D) 121  (E) 111

**X2** score

**2** ( ) Which sentence below doesn't show $\dfrac{5}{8}$ ?
(A) Sharing 5 pizzas between 8 people.
(B) Splitting 8 kg of sugar into 5 bags.
(C) Cutting a cake into 8 pieces, then eating 5 pieces.
(D) $5 \div 8$
(E) Putting 5 $\ell$ of water into an 8 $\ell$ jug.

**X3** score

**3** ( ) If 15 times of X is 135 and $\dfrac{1}{2}$ of Y is 15, what is X + Y = ?
(A) 165  (B) 150  (C) 45  (D) 39  (E) 30

**X4** score

**4** ( ) If a dictionary is 6.7 cm thick, how thick would 5 dictionaries be?
(A) 33.5 m  (B) 33.5 mm  (C) 335 cm
(D) 33 cm 4 mm  (E) 33.5 cm

**X5** score

**5** ( ) If Pelican starts at 7.4, moves 2.5 big divisions to the left, and then 1.3 big divisions to the right, where will he end up?



(A) 4.9  (B) 5.2  (C) 6.2  (D) 8.6  (E) 9.9

**X6** score

**6** ( ) There are 12 moon cakes in a box. Kelly's family ate $\dfrac{5}{12}$ of the box on the first day. They ate 3 moon cakes together the next day. How many moon cakes are left?
(A) 5  (B) 4  (C) 3  (D) 2  (E) 1

**X7** score

**7** ( ) There is 2,500 $m\ell$ of juice in the fridge. If Sam drinks 1$\ell$ 50 $m\ell$ of juice, how many $m\ell$ of juice will be left in the fridge?
(A) 1,450  (B) 1,400  (C) 1,250  (D) 1,050  (E) 1,000  $m\ell$

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**X8** score

**8** ( )



Which combination can be formed from the shapes on the left?
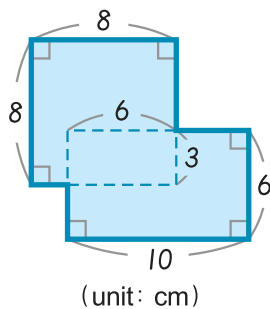(A) (B) (C) (D) (E)

**X9** score

**9** ( ) In July, there were 116 thousand visits to the math seminar. If there were 27 thousand more visits to the math seminar during August, how many visits were there in August?
(A) 88 thousand people (B) 89 thousand people
(C) 133 thousand people (D) 143 thousand people
(E) 259 thousand people

**X10** score

**10** ( )



(unit: cm)

How long is the perimeter of the figure on the left?
(A) 64 (B) 46 (C) 45 (D) 36 (E) 32 cm

**X11** score

**11** ( ) From Question **10** , what's the total area?

(A) 106 (B) 112 (C) 116 (D) 122 (E) 124 cm$^2$

**X12** score

**12** ( ) If we know September 8, 2019 is a Sunday, what day is September 26, 2019?
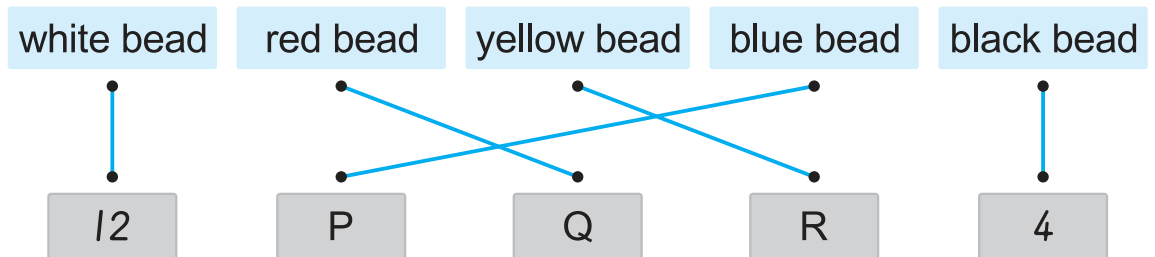(A) Monday (B) Tuesday (C) Wednesday
(D) Thursday (E) Friday

**X13** score

**13** ( ) There are 5 different coloured beads in the box. The greatest number of beads are white. There are 12 blue and yellow beads. There are fewer blue beads than red beads, but more blue beads than yellow beads. Matching the colour of the beads to the number of beads of that colour below, what will Q possibly be?
(A) 6 (B) 7 (C) 8 (D) 12 (E) 13



| white bead | red bead | yellow bead | blue bead | black bead |

| 12 | P | Q | R | 4 |

More questions are on the next page.

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For Question **14** ~ **16** , refer to the following graph.
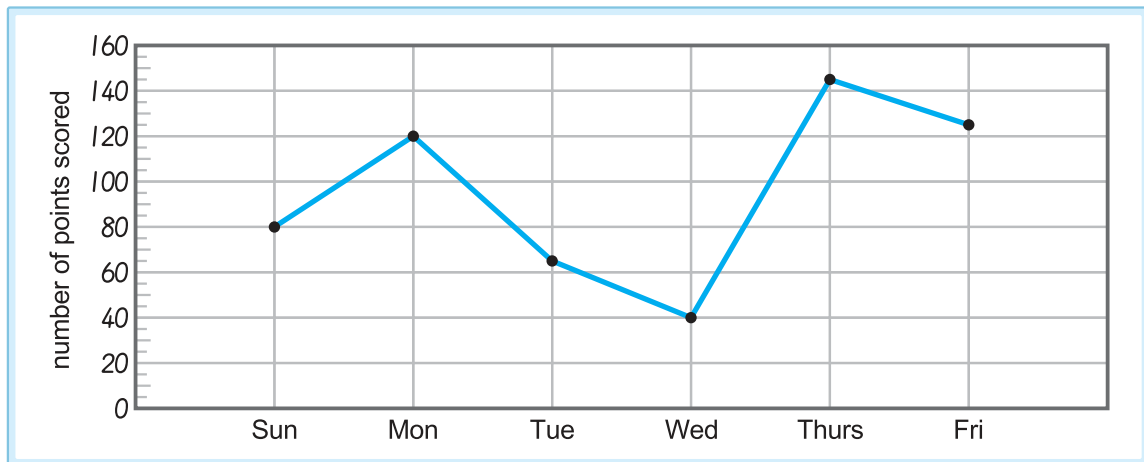


The graph shows the number of points scored from Sunday to Friday in a game.

**X14** score

**14** ( ) Between which days were the greatest difference of points scored?
（A）Sun－Mon　　（B）Mon－Tue　（C）Tue－Wed
（D）Wed－Thurs　（E）Thurs－Fri

**X15** score

**15** ( ) How many points did they lose between Monday and Wednesday?
（A）25　（B）40　（C）55　（D）65　（E）80

**X16** score

**16** ( ) How many points did they score from Sunday to Friday?
（A）575　（B）580　（C）585　（D）590　（E）595

**X17** score

**17** ( ) Matt, Sue, and Willy ate with their father, mother, and grandma.
Find out where their father is sitting based on their chat.

Matt：I'm sitting next to Willy.
Sue：Willy and my father are not sitting across from me.
Father：I'm sitting beside Mother, on her left.
Mother：I'm sitting close to Grandmother, so I can help her get food.
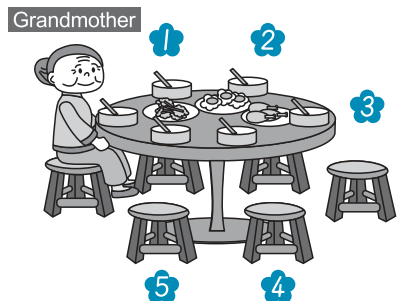


（A）1　（B）2　（C）3　（D）4　（E）5

**X18** score

**18** (　) Find the pattern and look for the missing numbers.

| 1 , 3 , 4 | 2 , 7 , 9 | 4 , 11 , 15 | 8 , 15 , 23 | ? |

(A) 10 , 19 , 29　(B) 12 , 19 , 31　(C) 14 , 19 , 33
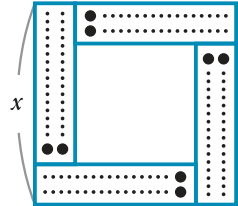
(D) 16 , 19 , 35　(E) 16 , 19 , 36

**X19** score

**19** (　) The square on the right is formed by 64 marbles. They are placed in rows of two as shown. What is $x$?

(A) 6　(B) 7　(C) 8　(D) 9　(E) 10



**X20** score

**20** (　) There are numbers P and Q. If P is bigger than Q by $\frac{3}{10}$ and P is 7.2, what is P + Q = ?

(A) 6.9　(B) 7.5　(C) 14.1　(D) 14.4　(E) 14.7

**X21** score

**21** (　) Justin went on a road trip. If he left his house at 11:20 am and arrived at his destination by 3:05 pm, how long did Justin drive for?

(A) 3 hr 45 min　(B) 3 hr 35 min　(C) 3 hr 25 min

(D) 3 hr 15 min　(E) 3 hr 5 min

**X22** score

**22** (　) The school is having a race. 5 items are laid out in a line. The distance between each item is 3 m. The distance between the starting line and the first item is also 3 m. The student must run from the starting line to the item and bring the item back to the starting line before they can get the next item. How many meters does Sean have to run to bring all 5 items back to the starting line?

(A) 78　(B) 81　(C) 87　(D) 90　(E) 96　　m

More questions are on the next page.

**X23** score

**23** ( ) ⬜5⬜ ⬜8⬜ ⬛●⬛ ⬜7⬜ are four cards with different numbers. We want to make the smallest number with these four cards, while having ⬛●⬛ in the thousands place. If we subtract the greatest four-digit number with the smallest four-digit number possible, the answer will be 6,174.

⬛●⬛ is = ?
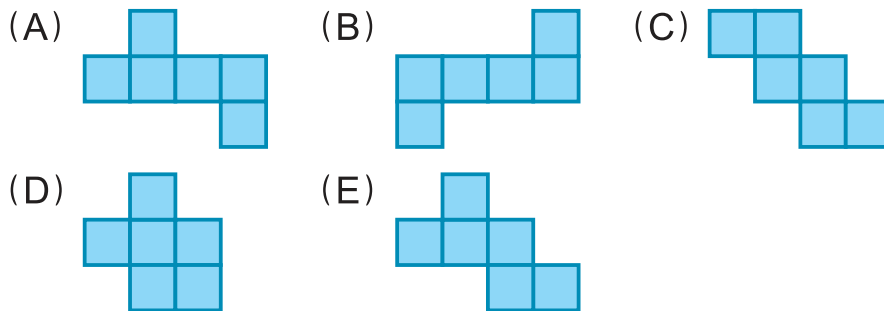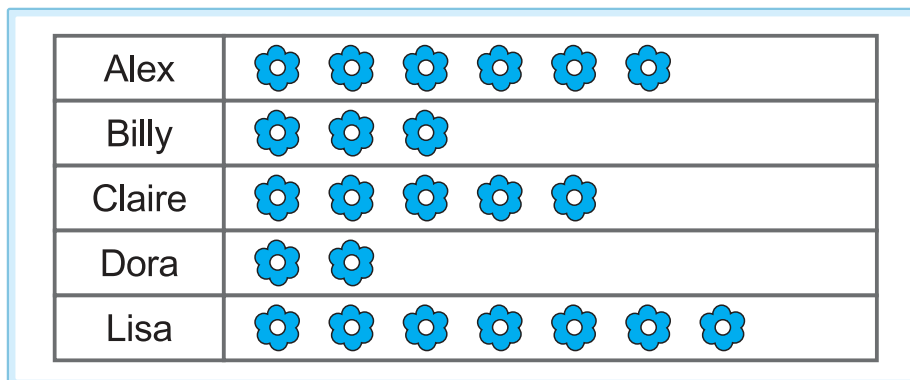
(A) 1　(B) 2　(C) 3　(D) 4　(E) 6

**X24** score

**24** ( ) Which one below <mark>cannot</mark> be made into a cube?

(A)　　　　　　　(B)　　　　　　　(C)

(D)　　　　　　　(E)

For questions **25** – **27**, refer to the following graph.

| Alex | ❀ ❀ ❀ ❀ ❀ ❀ |
| Billy | ❀ ❀ ❀ |
| Claire | ❀ ❀ ❀ ❀ ❀ |
| Dora | ❀ ❀ |
| Lisa | ❀ ❀ ❀ ❀ ❀ ❀ ❀ |

The above graph shows the amount of money spent by each student in a week.

**X25** score

**25** ( ) If Alex spent $30 a week, how much money does ❀ stand for?
(A) $2　(B) $3　(C) $5　(D) $6　(E) $10

**X26** score

**26** ( ) Who spent more than $30 a week?
(A) Alex　(B) Billy　(C) Claire　(D) Dora　(E) Lisa

**X27** score

**27** ( ) If Claire's allowance was $63 a week, how much money would she have saved this week?
(A) $40　(B) $38　(C) $35　(D) $30　(E) $25

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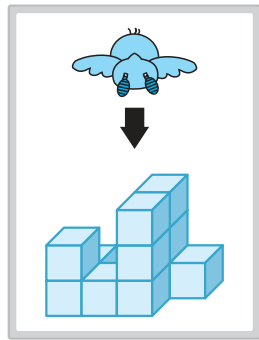
**X28** score

**28** (    ) $X \div 26 = 34 \cdots\cdots 13$. If $X \div 35 = Y \cdots\cdots Z$, then what is $Y - Z = ?$
（A）1　（B）2　（C）3　（D）4　（E）5

**X29** score

**29** (    ) What does 🐦 see?
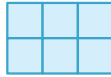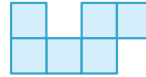


（A）　　　　　　　（B）　　　　　　　（C）
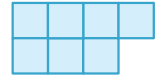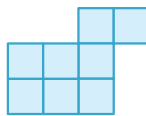
（D）　　　　　　　（E）
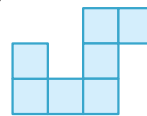
**X30** score

**30** (    )



What is the total mass of two 🔺 ?
（A）225 g　（B）275 g　（C）450 g
（D）525 g　（E）550 g