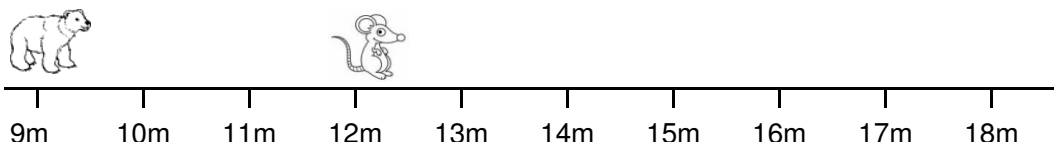


Answer the questions

- (1) In a clock, the hour hand is pointing between digits 10 and 11, and the minute hand is pointing at 8. What is the current time?

- (2) A bear is chasing a mouse.

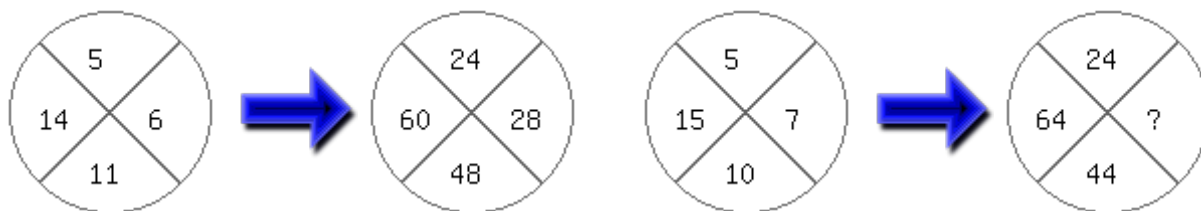


The bear starts from 9 m and jumps 3 m every time.

The mouse starts from 12 m and jumps 2 m every time.

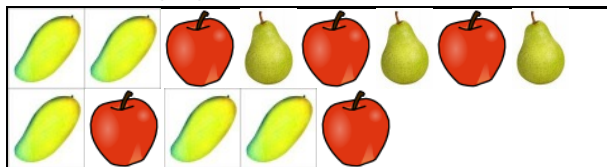
If they both start at the same time, after how many jumps will the bear catch the mouse?

- (3) What fraction of the following letters can be drawn using only straight lines?
N S C I O W B P E R
- (4) A wire of length 44 m is to be folded in the form of a square. If each side of a square has to be an integer (measured in meters), what is the maximum number of squares that can be formed by folding the wire.
- (5) Lillian roughly estimates product 81×496 as follows,
- She rounded off each number to the nearest ten.
- Then she multiplied the numbers.
What is her estimate?
- (6) Find the missing number:

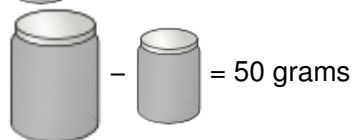


- (7) Find the successor of the largest 5 digit number.
- (8) Gabriel rolls a cube in which the letters U, J, O, B, I and P appear on faces 1, 2, 3, 4, 5, and 6, respectively.
What is the fraction of symmetric letters (either horizontal or vertical) on the cube?

- (9) The following figure shows different fruits in a basket. What fraction of the fruits are apples?



- (10) = 40 grams



If the total weight of , and is 280 grams, what is the weight of ?

Choose correct answer(s) from the given choices

- (11) Following table shows the profit made by 6 companies during last year:

| Company | Profit |
|-----------|-----------|
| Company 1 | \$350,000 |
| Company 2 | \$250,000 |
| Company 3 | \$150,000 |
| Company 4 | \$250,000 |
| Company 5 | \$100,000 |
| Company 6 | \$200,000 |

Which of the following statement is correct?

- a. No company made more than \$350,000 profit. b. No company made less than \$120,000 profit.
 c. Company 2 made \$100,000 more profit than Company 1 d. Company 5 made \$150,000 more profit than Company 4
- (12) Christian solved the problem as shown below. Which expression could be used to check his result?

$$\begin{array}{r} 610 \\ 5 \overline{)3053} \\ \text{Remainder: } 3 \end{array}$$

- a. $(610 \times 3) + 5$ b. $(5 + 610) \times 3$
 c. $(5 \times 610) + 3$ d. $(610 \div 3) + 5$
- (13) Jiro Akagawa was born on 29th February. His birthday comes:
- a. every year b. once every four years
 c. after every two years d. twice in a year

(14) 80 is multiplied by a number and the product remains the same. The number is

a. 1

b. 80

c. $\frac{1}{80}$

d. 0

Fill in the blanks

(15) Look at the sequence of numbers and fill in the missing numbers:

3, 3, 6, 18, 72, 360, ,



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Answers

- (1) 10:40 hours
- (2) 3 jumps
- (3) $\frac{4}{10}$
- (4) 11
- (5) 40000
- (6) 32
- (7) 100000
- (8) $\frac{4}{6}$
- (9) $\frac{5}{13}$
- (10) 50 grams
- (11) a. No company made more than \$350,000 profit.
- (12) c. $(5 \times 610) + 3$
- (13) b. once every four years
- (14) a. 1
- (15) 2160 15120