

Question 1

What is the value of $(222 + 22) \div 2$

- A. 111 B. 112 C. 122 D. 133 E. 233

Question 2

A double decker bus has 80 seats. On my journey to school I noticed that all the seats in the bus were taken and 7 people were standing. At the hospital, 9 people left, 28 people entered and all seats were taken. How many people now had no seat?

- A. 0 B. 7 C. 16 D. 26 E. 35

Question 3

My train left Wellington at 06:15 and arrived in Palmerston North at 08:48 later that morning. How many minutes did the journey take?

- A. 153 B. 193 C. 233 D. 1463 E. 1501

Question 4

The perimeter of a regular decagon P is 8 times the perimeter of the regular octagon Q . Each edge of the regular octagon Q is 10 cm long. How long is each edge of the regular decagon P ?

- A. 8 cm B. 10 cm C. 40 cm D. 60 cm E. 64 cm

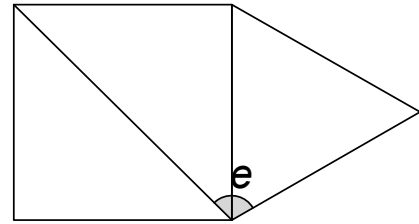
Question 5

Gill scored a goal half way through the second quarter of a 'teachers versus pupils' netball match. At that point, what fraction of the whole match remained to be played?

- A. $\frac{1}{4}$ B. $\frac{3}{8}$ C. $\frac{1}{2}$ D. $\frac{5}{8}$ E. $\frac{3}{4}$

Question 6

The diagram shows an equilateral triangle, a square and one diagonal of the square.
What is the value of the angle e ?



- A. 105 B. 110 C. 115 D. 120 E. 135

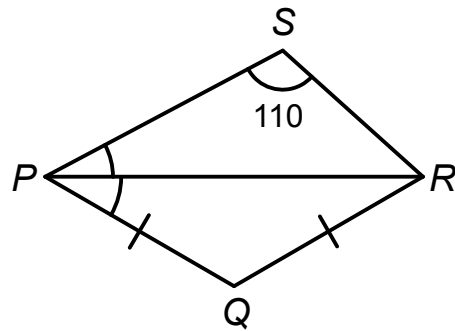
Question 7

The approximate cost of restoring the Kingston Flyer was \$4,000,000. This was about 500 times the cost of building the steam engine in 1923. What did the engine cost to build?

- A. \$800 B. \$2000 C. \$8,000 D. \$20,000 E. \$80,000

Question 8

The diagram shows a quadrilateral $PQRS$ in which PQ and QR have the same length. Also PR bisects $\angle SPQ$, the ratio of $\angle SPR$ to $\angle PRS$ is 2:3 and $\angle PSR = 110$ degrees.
How many degrees is angle PQR ?



- A. 124 B. 120 C. 110 D. 90 E. 28

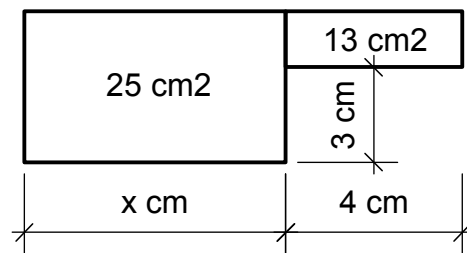
Question 9

Billy has three times as many llamas as lambs.
Milly has twice as many lambs as llamas.
They have 17 animals in total.
How many of the animals are llamas?

- A. 5 B. 6 C. 7 D. 8 E. 9

Question 10

The areas of two rectangles in the diagram are 25 cm² and 13 cm² as indicated.
What is the value of x ?



- A. 3 B. 4 C. 5 D. 6 E. 7

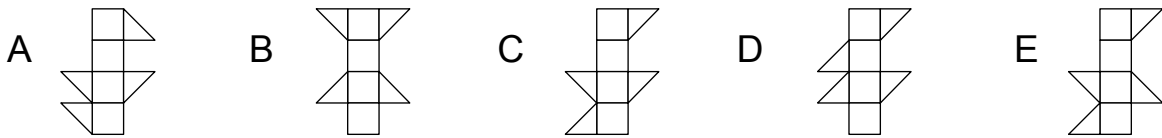
Question 11

Between them, the two five-digit integers M and N contain all ten digits from 0 to 9. What is the least possible difference between M and N ?

- A. 123 B. 247 C. 427 D. 472 E. 742

Question 12

Which of these could be folded to make a cube?



Question 13

There are _____ vowels in this short sentence.

Which of the following options should replace “_____” to make the sentence true?

- A. twelve B. thirteen C. fourteen D. fifteen E. sixteen

Question 14

A drawer contains ten identical yellow socks, eight identical blue socks and four identical pink socks. Amrita picks socks from the drawer without looking. What is the smallest number of socks she must pick to be sure that she has at least two pairs of matching socks?

- A. 5 B. 6 C. 8 D. 11 E. 13

Question 15

The value of $1000 - 100 + 10 - 1$ is:

- A. 111 B. 900 C. 909 D. 990 E. 999

Question 16

The year 2004 has the units digit equal to twice the thousands digit. How many years will it be before this happens next?

- A. 10 B. 36 C. 220 D. 1002 E. 2004

Question 17

Which of the following numbers is not the difference between two of the others?

- A. 1 B. 7 C. 6 D. 5 E. 2

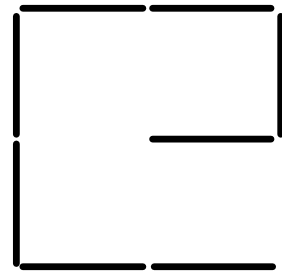
Question 18

The word 'thirty' contains 6 letters and $6 = 30 \div 5$. Similarly, the word 'forty' contains 5 letters and $5 = 40 \div 8$. Which of the following is not a multiple of the number of letters it contains?

- A. six B. twelve C. eighteen D. seventy E. ninety

Question 19

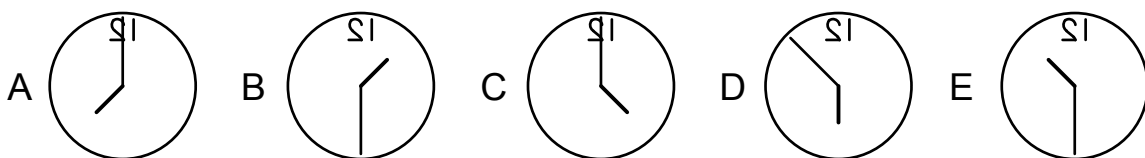
The diagram shows a pattern made from matchsticks stuck to a piece of card. What is the smallest number of matchsticks that need to be added so that the resulting pattern has a line of symmetry?



- A. 0 B. 1 C. 2 D. 3 E. 4

Question 20

If you looked in a mirror at an accurate clock at 1:30pm, which of the following would you see?



Question 21

The lightest seeds in the world are probably those of the Creeping Lady's-tresses Orchid, 500,000 of which would weigh 1 gram. How many millions of these seeds weigh 1 kilogram?

- A. 2 B. 200 C. 500 D. 5,000 E. 1,000,000

Question 22

On Monday last week Dilly started to learn the Tlingit language. Every day she learnt five new words, but when she woke every morning she had forgotten two of the words learnt the day before. When did Dilly first achieve her target of learning fourteen words?

- A. Friday B. Monday C. Saturday D. Thursday E. Wednesday

Question 23

Which one of these calculations is incorrect?

- A. $4 \times 5 + 67 = 45 + 6 \times 7$
B. $3 \times 7 + 48 = 37 + 4 \times 8$
C. $6 \times 3 + 85 = 63 + 8 \times 5$
D. $2 \times 5 + 69 = 25 + 6 \times 9$
E. $9 \times 6 + 73 = 96 + 7 \times 3$

Question 24

If the following fractions are arranged in increasing order of size, which one is in the middle?

- A. $1/2$ B. $2/3$ C. $3/5$ D. $4/7$ E. $5/9$

Question 25

There are six different three-digit numbers, each of which contains all the digits 1, 3 and 5. How many of these three-digit numbers are prime?

- A. 0 B. 1 C. 2 D. 3 E. 4

Question 26

How many of the statements in the box are true?

None of these statements is true.
 Exactly one of these statements is true.
 Exactly two of these statements are true.
 All of these statements are true.

- A. 0 B. 1 C. 2 D. 3 E. 4

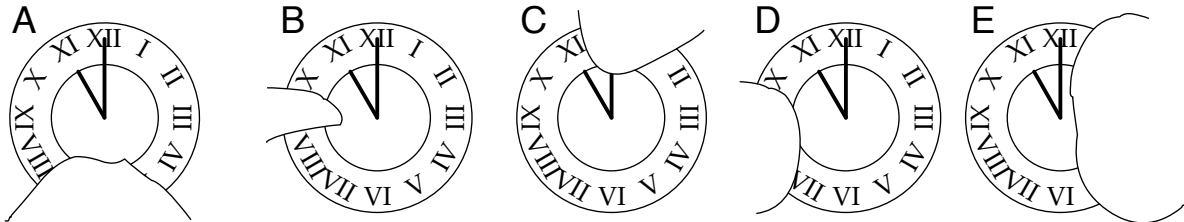
Question 27

Jack dances clockwise around the maypole, making one revolution every five seconds. Starting from a point diametrically opposite Jack's starting point, Jill dances anticlockwise, making one revolution every six seconds. How many times do they pass each other in the first minute?

- A. 11 B. 15 C. 22 D. 30 E. 60

Question 28

Larry the guinea pig likes to sit on parts of clock faces. In which of these clock faces has the largest total value of numbers been hidden?



Question 29

Travelling by train from Picton to Christchurch, I passed a sign saying "Christchurch 150 kilometres". After 7 more kilometres, I passed another sign saying "Picton 250 kilometres". How far is it by train from Picton to Christchurch?

- A. 407 km B. 393 km C. 257 km D. 243 km E. 157 km

Question 30

At the end of a hard day at the mine, the seven dwarves share out all their gold nuggets, making sure that they each get the same number of nuggets. If there are any left over, they are given to Snow White. Which number of nuggets would leave Snow White with the most?

- A. 300 B. 400 C. 500 D. 600 E. 700