

Question 1

Rounded to the nearest thousand, how many seconds are there in a day?

- A. 1,440 B. 3,600 C. 8,600 D. 86,000 E. 86,400

Question 2

Which is the shortest of the following lengths?

- A. 310 *cm* B. 0.316 *m* C. 0.32 *m* D. 36 *cm* E. 372 *mm*

Question 3

A third of a cake has been eaten and 6 slices remain. If all the slices were the same size, the number of slices that the cake was originally cut into was

- A. 3 B. 9 C. 12 D. 18 E. 36

Question 4

I am greater than 50, but less than 100. I am not divisible by 4. I am divisible by 9 and divisible by 5. What number am I?

- A. 45 B. 72 C. 81 D. 90 E. 100

Question 5

A school buys 44 computers each costing \$400. They then buy another 22 computers costing \$600 each. How much did they spend altogether on computers?

- A. \$17,600 B. \$26,400 C. \$30,800 D. \$33,000 E. \$39,600

Question 6

How many degrees does the minute hand of an analog clock move between 11.30 *am* and 2.15 *pm* of the same day?

- A. 165 B. 270 C. 630 D. 790 E. 990

Question 7

Harvey Norman has a store wide sale with 25% off everything. Mitch buys a high definition television for \$1,000.00. What was the original price of the television?

- A. \$750.00 B. \$1,025.00 C. \$1,250.00 D. \$1,333.33 E. \$1,500.00

Question 8

The difference in value between the two 4's in 24.48 is

- A. 0 B. 0.6 C. 0.9 D. 3.6 E. 20

Question 9

There are 700 pupils at Newlands Intermediate. An influenza outbreak leaves $\frac{1}{2}$ of the students sick. If $\frac{2}{5}$ of the sick students are girls, how many boys are sick?

- A. 140 B. 210 C. 350 D. 560 E. 700

Question 10

The product of two whole numbers is 24. What is the smallest possible sum of these two whole numbers?

- A. 10 B. 11 C. 14 D. 24 E. 25

Question 11

William plays Minecraft aiming to get the world record for non-stop playing. He starts at 9.00 *am* on the 23rd of April. He finishes on the 25th of April at 5.00 *pm*. How many hours was he playing for?

- A. 20 B. 24 C. 32 D. 44 E. 56

Question 12

Sampson rode his bike at a speed of 36 *km/h* for 5 minutes, his speed lowered to 31 *km/h* for 5 minutes then it went up to 41 *km/h* for five minutes. Repeating this pattern, he continued riding for another hour. How many times did his speed change over the duration of his ride?

- A. 12 B. 13 C. 14 D. 15 E. 20

Question 13

What is the radius of the largest spherical football that can fit inside a cardboard box with edge dimensions of 3 *cm*, 4 *cm* and 5 *cm*?

- A. 1.5 *cm* B. 2 *cm* C. 2.5 *cm* D. 3 *cm* E. 4 *cm*

Question 14

A family of gorillas at the zoo are given three sorts of fresh fruit each day (apples, bananas and oranges). If 100 apples last 5 days, 56 bananas last seven days and 63 oranges last 9 days, how many pieces of fruit do the gorillas get each day?

- A. 35 B. 36 C. 70 D. 72 E. 219

Question 15

Lauren buys a tablet at a sale. The advertised price is \$369.00. The store wide sale discounts all items by 30%. How much does she pay?

- A. \$246.00 B. \$258.30 C. \$279.00 D. \$339.00 E. \$479.70

Question 16

If $a * b = a - b$, therefore $4 * 20 =$

- A. -24 B. -16 C. 16 D. 24 E. 80

Question 17

The sum of all prime numbers between 20 and 30 is

- A. 50 B. 52 C. 79 D. 100 E. 125

Question 18

Nalini owns a corner store. She needs to order her monthly supply of ice-blocks from TipTop which is 50 ice-blocks. Each ice-block costs \$1.50, plus a bonus of two ice-blocks free after every 10 purchased. How much does her order of 50 ice-blocks cost?

- A. \$48 B. \$60 C. \$63 D. \$69 E. \$75

Question 19

The next number in the sequence 0.1, 0.2, 0.35, 0.55 is

- A. 0.55 B. 0.65 C. 0.7 D. 0.75 E. 0.8

Question 20

Nick has some medication from the doctor and has to take one tablet per day. The bottle contains 40 tablets at the start. After taking his tablet on 30th August, he has gone through $\frac{3}{8}$ of the bottle. On what day does he take the last tablet from the bottle?

- A. 14th Sept B. 15th Sept C. 23rd Sept D. 24th Sept E. 25th Sept

Question 21

In the following subtraction, what digit does the % stand for?

$$4\%8 - 163 = 275$$

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

Question 22

Poneke Rugby Club decide to do a fundraising sausage sizzle on each day of the weekend for 5 weeks. For the first 4 weeks the total profit is \$880.00. The average profit from the two fundraisers on the 5th week is \$102.50. What is the average profit from each sausage sizzle?

- A. \$98.25 B. \$108.50 C. \$110.00 D. \$217.00 E. \$220.00

Question 23

If $a = 8$, $b = 5$, $c = 7$. Then $a - 2 \times b + c^2$

- A. 47 B. 51 C. 79 D. 864 E. 1369

Question 24

Michael can type 7 pages in 25 minutes. Susan can type a page in 5 minutes. They are working together and need to type 84 pages. Assuming they both work at their normal typing speeds, how many pages did Michael type?

- A. 12 B. 35 C. 49 D. 70 E. 73

Question 25

An emergency beacon beeps and flashes once every second. The time for it to reach its one millionth beep and flash is nearest to

- A. 12 minutes B. 12 hours C. 12 days D. 12 weeks E. 12 months

Question 26

Which is the odd one out?

A. centimetre B. decimetre C. kilometre D. metre E. millilitre

Question 27

The oldest person in the world is Susannah Jones and she will turn 117 in 2015. In which year was Susannah born?

A. 1808 B. 1888 C. 1898 D. 1902 E. 1908

Question 28

A circular pie chart is drawn to show the results of a survey of the different types of pets a class has. 40% of the class had cats, 30% had a dog and 20% had fish. If everyone in the class only had one pet, what would be the angle in degrees on the pie chart showing the people that had a different pet?

A. 10 B. 18 C. 20 D. 36 E. 72

Question 29

How many whole number factors does 36 have?

A. 4 B. 5 C. 9 D. 10 E. 36

Question 30

The Watties factory sells bulk boxes of baked beans cans. In each box there are three layers of cans. Each layer has 9 cans along and 12 across. How many cans does the factory produce in five minutes if it packs 4 boxes per minute?

A. 1260 B. 1296 C. 1620 D. 2160 E. 6480