

Question 1

What is the second multiple of 7 after 100?

Question 2

Express the answer to this as a fraction in its lowest form.

$$0.2 + 0.25 + 0.15 =$$

Question 3

A $5\text{ cm} \times 5\text{ cm} \times 5\text{ cm}$ cube is painted red on all sides.
If the cube is cut into $1\text{ cm} \times 1\text{ cm} \times 1\text{ cm}$ cubes,
how many cubes will have no paint on them?

Question 4

An ant climbs up a sand dune.
During the day it advances 4 m but over night it slides back down 3 m .
If the ant starts at the bottom of the dune, how many days would it take to
get to the top of a 27 m long dune?

Question 5

Sam bought a new Mini Cooper. It could travel 140 km on 18 litres
of petrol. How much petrol would it need to travel 210 km ?

Question 6

Derek, Lauren and Linda went to a cafe together. Derek bought a latte and a sandwich for \$8, Lauren bought a sandwich and a muffin for \$10, Linda bought a latte and a muffin for \$12. How much did each item cost?

Question 7

A light flashes every 3 minutes. Another light flashes every 6 minutes and a third light flashes every 7 minutes.
If the lights all flash together at 10.00 *am*, when will they next flash together?

Question 8

A 3 *cm* x 4 *cm* rectangle is inscribed inside a circle.
What is the radius of the circle?

Question 9

$3a + b = 17$. $a + b = 11$. $2a + b = ?$

Question 10

Michael works 8 hours on Monday, Tuesday and Thursday. He also works 9 hours on Wednesday and only 3 hours on Friday. He has the weekend off. If he earns \$630.00 for the week's work, how much does he earn per hour?

Question 11

Which shape has the largest area?

A square with a 5 *cm* side,
a circle with a 6 *cm* diameter, or
an equilateral triangle with a 7 *cm* side?

Question 12

Susan buys two ten sided dice.

What is the probability that when she throws them the total of both dice will be 8?

Question 13

A group of girls plan to buy their netball coach a special birthday cake. The cake will cost them \$5 each. However, on the day that they collect the money, two of the girls are away sick, and the other girls have to pay \$6 each. What is the cost of the cake?

Question 14

Liam works at Domino's Pizzas. He can make 3 different crusts: classic, cheesy or thin. There are 10 vegetable toppings and 4 meat toppings he can choose from. How many different combinations of pizza can Liam make if each pizza must have only one vegetable and one meat topping?

Question 15

The temperature at 6.00 *am* this morning was 6 degrees. It rose at an even rate to be 20 degrees at 2.00 *pm* this afternoon. Since then it has decreased at the same rate.

What was the temperature at 6.00 *pm* this evening?

Question 16

What value of goods and services did New Zealand import from Singapore in 2014?

Question 17

Sylvia is trying to choose which phone company to use with her new iPhone. Vodafone offer \$29.95 per month for 1000 txts. Additional txts \$0.10 each. Spark offer \$19.95 per month for 500 txts and additional txts \$0.02 each. 2degrees offer \$35.99 per month for unlimited txts. Slingshot offer no monthly charge and \$0.12 per text. Which company suits best if Sylvia sends 1275 txts per month?

Question 18

Ivan can mow a lawn in 30 minutes.
Simon can mow the same lawn in 45 minutes.
If they had a lawnmower each and worked together, how long would it take them to mow the lawn?

Question 19

Write down all the whole number dimensions of a rectangle with an area of 36 square centimeters.

Question 20

Christian has a bag of apples. He gives a third of them to Mikey. Mikey eats 2 apples and has 5 left. How many apples did Christian start with?

Question 21

Vong Sy makes 9 regular hexagonal shapes out of silver plate and joins them together on edges in a line to make a bracelet.

Each hexagon has a perimeter of 60 *mm*.

What is the perimeter length of the top edge of the bracelet?

Question 22

Vijay measures a block of wood and finds that the ratio of its length:height:depth is 2:3:4 and that its surface area is 208 *cm*².

What is the volume of the piece of wood?

Question 23

What is the next number in this sequence?

2, 7, 17, 37, 77, ___

Question 24

What is ten thousand minus one?

Question 25

Five times a number gives the same answer as adding 24 to the number.

What is the number?