1. 1 million less than 30 478 920.
2. 10 thousand more than 1 589 600.

5 & 6: 0, 3, 5 and 8 are 4 cards to be arranged in 4 digits numbers.

1. What is the biggest odd number?
2. What is the smallest even number?

7 & 8 Place the following numbers in descending order

1. 0.83, 8.03, 0.08, 8.003, 0.083, 0.803
2. Round off 578.761 to the nearest whole number
3. Round off $3.476 to the nearest cent.
4. What is the square root of the sum of the squares of 12 and 6?

18 & 19: Use the following operation signs and numbers to make an expression

20 -23: Use a quick method to find the following

24 & 25: Find what the symbol represent to work out the following



**NUMBER AND CALCULATION**

AVERAGE QUESTIONS

SHORT ANSWER

1. Find the average mark

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marks | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| No. of Student | 2 | 3 | 4 | 8 | 10 | 5 | 2 | 1 |

2& 3: Find the number.

1. Five time the square root of 81 is increased by the quotient of 24 and 6.
2. The difference between 39 and 11 is divided by the sum of 2 squared and 3.
3. = , then 7 [(1 1) 2]=

Find the value of

**FACTORS, MULTIPLIERS AND REMAINDERS**

1. Write all the prime numbers from 1 to 30
2. Which numbers are factors of 36?
3. How many multiples of 7 are there from 1 to 200?
4. Find the closest number to 500 using the multiples of 17.
5. The sum of two numbers is 20 and their product is 91. Find the two numbers.

6 -8: Use the following numbers to answer the questions below:

243, 464, 729, 832, 900, 1012,

1200, 2790.

1. Which number are divisible by 4?
2. Which numbers are divisible by 6?
3. Which numbers are divisible by 9?
4. Write the first three common multiples of 16 and 20 in ascending order.
5. Write the first three common multiples of 15, 6 and 10 in ascending order.
6. Find the whole number in the box.

**AVERAGE QUESTIONS**

**SHORT ANSWER**

12 & 13: Square tiles are used for a rectangular floor of 60 cm by 84 cm. Answer the Questions by using the largest possible tiles.

1. What is the length of one side of the tiles?
2. How many tiles are used?
3. Two cannons are fired at the same time, then the first one is fired every 96 seconds and the other is fired every 108 seconds. How long after they start will it take until the two cannons are again fired together.

15 & 16: From a station a bus departs every 20 minutes, while the train departs every 25 minutes. At 9:00 am both the train and the bus will depart.

1. At what time will they depart together again?
2. How many times will this occur from 9:00 am to 7:30 pm?

(Including 9:00 am.)

1. When wither 103, 127 or 163 is divided by a certain number, the remainder is 7. Find the number.
2. Joe was counting the stamp in his collection. He counted them by 2’s. 3’s and 9’s and found that there was one left over each time. If the number of stamp was definitely between 20 and 50, how many stamps did he have?

**FACTORS, MULTIPLES AND REMINDERS**

1. What is the smallest number than 45 can be multiplied by to give a perfect square?
2. What is the smallest number that 525 can be divided by to give a perfect square?
3. If is the highest common factor of i and ii, then

4-6: Fill in the box with one or more numbers from 0 to 9 so that:

1. When a whole number is divided by 17, the answer is between find the number.
2. The least possible fraction is multiplied by to form a whole number. Find the Fraction.
3. A rectangular prism has breadth 48 cm. if the cubes have to be as large as possible, how may cubes could fill this rectangular prism?

**EXTENSION QUESTIONS**

**SHORT ANSWER**

1. Three fireworks are fired at the same time, then the first one is fired every 64 seconds, the second is fired every 84 seconds and the third is fired every 96 seconds. How long after they start will it take until all three fireworks are again fired together.
2. Slater attends the library every 6 days, while Randle attends the same library every 8 days. If they met one Monday, in how many days will they next meet on a Monday?

12&13: The table shows the numbers starting from 1.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 |
| 2 | 7 | 8 | 9 | 10 | … | … |
| 3 | … | … | … | … | … | … |

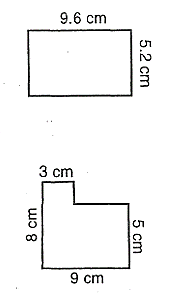
1. In which column does 73 appears?
2. What number appears in column 5, row 8?
3. A number when divided 7 leaves a remainder of 3, and when divided by 5 leaves a remainder of 1. Find the smallest number
4. What is the least number when divided by 10 leaves a remainder of 7, and when divided by 12 leaves a remainder of 3?

**AREAS AND VOLUMES**

1-8: Change the following to the units in brackets.

2. 700 (B) 7 000 000
3. 0.07 (D) 70 000
4. 65000 (B) 6.5
5. 65 (D) 650
7. 9.81 (B) 98.1
8. 981 (D) 9810
9. 60 300 (B) 6030
10. 63 00 (D) 603
12. 50 000 (B) 5 000 000
13. 500 000 (D) 500
15. 4200 (B) 420 000
16. 420 (D) 42 000
18. 32.1 (B) 3.12
19. 3.21 (D) 321
21. 20 (B) 2
22. 0.2 (D) 200

9 & 10: Find the area of each figure.

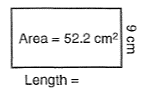
1. (A)
2. 14.8
3. (A)
4. 69

**AVERAGE QUESTIONS**

**MULTIPLE ANSWER**

1. Find the shaded area if the graph paper is ruled into

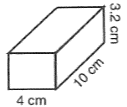
1 cm squares

1. (D)
2. Find the length of the rectangle given the breath and area

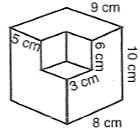
(A)

(B)

(C) (D)

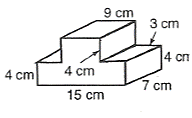
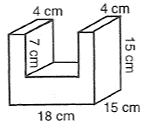
13 & 14: Find the Surface area.

1. (A)



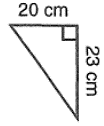
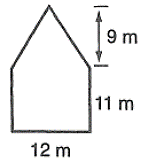
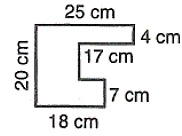
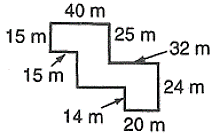
1. (A)

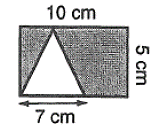
15 & 16: Find the volume of each prism

1. (A)
2. (A)
3. If square has an area , what is the perimeter?
4. 128 m (B) 16m
5. 56 m (D) 64m
6. Find the volume in of a cube with sides 50 cm.
7. 0.125 (B) 2500
8. 0.25 (D) 125 000

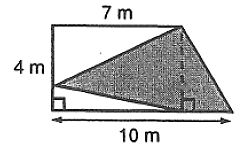
**AREAS AND VOLUMES**

1-4: Find the Area of each figure

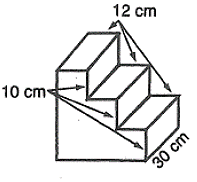
1. (A)
2. 460
3. (A)
4. 132
5. (A)
6. 228
7. (A)
8. 132

5 & 6: Find the shaded area in each figure

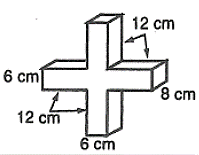
1. (A)
2. 32.5



1. (A)
2. 34

7-9: Find the value of each solid.

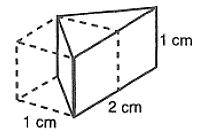
1. (A)
2. 25 200



1. (A)
2. 2340

**EXTENSION QUESTIONS**

**SHORT ANSWER**



1. (A)
2. 1
3. Kyle’s backyard is a rectangle with a perimeter of 0.06 km. if the length is 6 m longer than the breath, what is the area?
4. (B)
5. (D)
6. Peter has a water tank of dimensions If Peter fills the tank with a garden hose at a rate of 1 L every 30 second, how long will it take to completely fill the tank?
7. 8 hours (B) 1.6 hours
8. 16 hours (D) 80 hours
9. The dimension of a rectangular aquarium are 35 cm long and m wide. If a liter bucket is used to fill the aquarium and the depth is 32 cm, how many full buckets were used?
10. 18 (B) 21
11. 20 (D) 19

13. A cube side’sm was constructed out clay and then molded into a rectangular prism with length 12 cm and breadth 16 cm. What is the height of the rectangular prism?

(A) 3 cm (B) 72 cm

(C) 30 cm (D) 7.2 cm

14. A water tank has length 3 m, breadth 5 m and depth 2m. The tank is half full and 0.6 kL of water is added. What is the depth of the water in the tank?

(A) 1.4 m (B) 1.02 m

(C) 1.04 m (D) 0.4 m