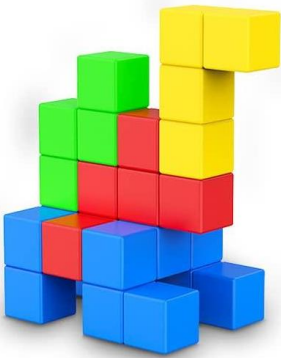


1) Solve:

$$3015 + 1987 - 4072 + 2764 - 1459 = ?$$

- A) 1235
- B) 2235
- C) 1795
- D) 1475

2) How many small cubes are there?



- A) 27
- B) 29
- C) 32
- D) 25

3) If  $|2x - 3| = 7$ , which is NOT a solution?

- A) 5
- B) -2
- C) 5/2
- D) None of these

4) In the given pattern, find the missing number?

$$6, 12, 16, ?, 36, 72$$

- A) 27
- B) 29
- C) 32
- D) 25

5) Which value of  $x$  satisfies:  $x^2 - 4x > 0$  and  $x - 3 < 0$

- A) 1
- B) 5
- C) -2
- D) 4

6) A car travels  $\frac{1}{3}$  journey at 30 km/h,  $\frac{1}{3}$  at 45 km/h,  $\frac{1}{3}$  at 90 km/h. Avg speed?



- A) 48
- B) 45
- C) 55
- D) 60

7) What comes next: 3, 6, 11, 18, 27, ?

- A) 38
- B) 36
- C) 40
- D) 37

8) According to the given rule, find  $M - N + K + L = ?$

+	K	L
M	14	16
N	11	13

x	M	N
K	K <sup>2</sup>	
L		

A) 19

B) 24

C) 12

D) 18

9) Choose 1 of 3 shirts, 2 pants, 4 shoes. How many combos?

• Shirts = 3

• Pants = 2

• Shoes = 4

A) 9

B) 24

C) 12

D) 18

10) Solve:

$$\left(\frac{1}{2} - 1\right) \times \left(\frac{1}{3} - 1\right) \times \left(\frac{1}{4} - 1\right) \times \dots \times \left(\frac{1}{20} - 1\right)$$

A)  $\frac{1}{20}$

B)  $-\frac{1}{20}$

C) 1

D)  $-\frac{19}{20}$

11) If  $A+B=5$ ,  $B+C=7$ ,  $C+A=6$ , what is  $A+B+C$ ?

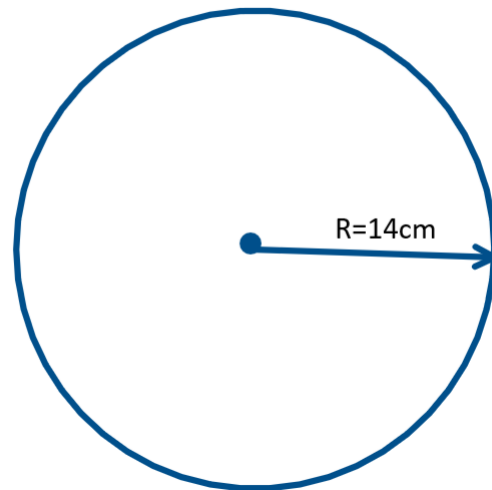
A) 8

B) 9

C) 10

D) 11

12) Circle radius = 14 cm. Find the area of this circle?



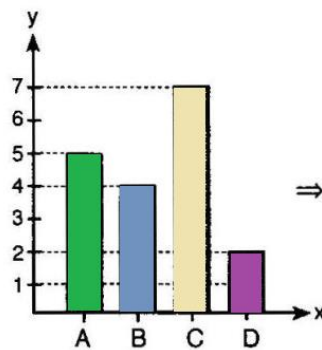
A) 454 cm<sup>2</sup>

B) 495 cm<sup>2</sup>

C) 576,6 cm<sup>2</sup>

D) 616 cm<sup>2</sup>

13) With the given information, how many degrees is the value of  $x + y = ?$



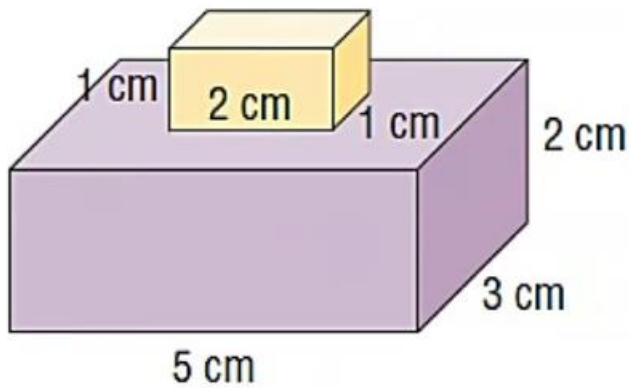
A) 180°

B) 220°

C) 200°

D) 240°

14) Find the surface area if this figure.



- A) 68 cm<sup>2</sup>
- B) 48cm<sup>2</sup>
- C) 102 cm<sup>2</sup>
- D) 78 cm<sup>2</sup>

15) Today the Sun rises on a **Friday**, and a prophecy speaks of an event unfolding 55 days from now. Time flows forward in endless cycles...

On what day of the week shall the prophecy be fulfilled?



- A) Friday
- B) Saturday
- C) Wednesday
- D) Thursday

16) Find the value of  $x + y$  in this pattern.

36, 36, 29, 32, 22, 28,  $x$ ,  $y$

- A) 24
- B) 39
- C) 32
- D) 41

17) What is the value of  $a + b + c = ?$

x	a	b	c
a			48
b	42		
c		56	

- A) 21
- B) 25
- C) 32
- D) 33

18) If  $a = 2^3 \times 5^2$  and  $b = 2 \times 5$ , what is  $\frac{a^2}{b^3} = ?$

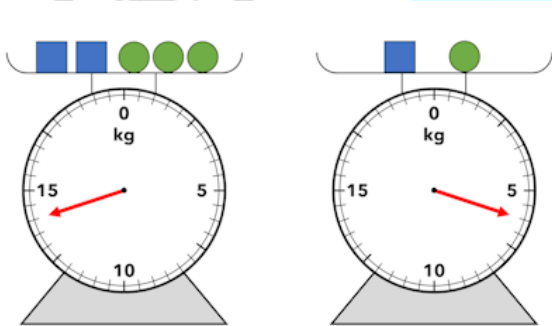
- A)  $2^3 \times 5$
- B)  $2^2 \times 5$
- C)  $2^4 \times 5$
- D)  $2^5 \times 5^2$

19) A machine fills 0.625 liters of juice into each bottle. How many bottles can be completely filled from 60 liters of juice?



- A) 60 B) 75 C) 80 **D) 96**

20) What is the value of square?



- A) 2 B) 3  
**C) 4** D) 6

21) Solve:

$$20,25 - 19,90 + 40,32 - 22,22 + 33,55 = ?$$

- A) 42,5 B) 49,35  
**C) 52** D) 55

22) Find the value of  $a + d = ?$

$$\begin{array}{r} \boxed{a} + \boxed{b} = 7 \\ + \quad + \\ \boxed{c} - \boxed{d} = 5 \\ \parallel \quad \parallel \\ 12 \quad 7 \end{array}$$

- A) 1 B) 5 C) 10 **D) 7**

23) Solve:  $\frac{AB+BC+CA}{AA+BB+CC} = ?$

- A) 1** B) 2  
 C) 3 D) 11

24) A student scored 18.5, 21.75, 19.25, and 22.5 in four tests. What is the average score?

- A) 20.6 **B) 20.5**  
 C) 20.1 D) 20.9

25) The number increased by 25% and then decreased by 20%. Net percentage change?



- A) 0%** B) +5%  
 C) +2% D) +0% to 2%