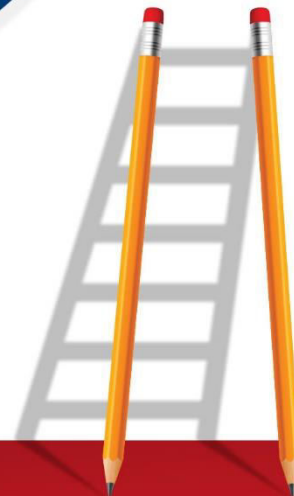


Logical Reasoning



Worksheet-1



STOP

A PROJECT BY PUNJAB GROUP

Worksheet-1

1. If sum of five prime numbers is even the smallest of the numbers is:
A. 1
B. 2
C. 7
D. 11
2. If we subtract 2 from tenth digit of a number the new number will become:
A. Less than 2 from original number
B. Less than 20 from original number
C. More than 200 from original number
D. More than 20 from original number
3. If $a + b = 3ab$ then $3 + 5 =$
A. 3
B. 45
C. 8
D. 30
4. If $a = .01$ which one is in decreasing order:
A. $a, a^2, \sqrt{a}$
B. $a^2, a, \sqrt{a}$
C. $\sqrt{a}, a, a^2$
D. $\sqrt{a}, a^2, a$
5. If $x = 2$ and $y = 5$ then $4x + 9y =$
A. 48
B. 29
C. 53
D. 40
6. 6 hours are what part of 2 days:
A. 8th
B. 24th
C. 12th
D. 6th
7. A can paint a wall in 3 hours with the help of B they can fill in 2 hours. In how much time B alone will paint the wall:
A. 6
B. 3
C. 2
D. 5
8. If your doctor gave you 5 doses of medicine and advised to take one every 4 hours how long would they last:
A. Two days
B. 16 hours
C. 20 hours
D. 12 hours
9. An insect begins climbing a wall 15 feet high every minute it ascends 2 feet but slides 6 inches. How much time will it reach the top:
A. 15
B. 5
C. 10
D. None

10. 210 oranges and 252 apples are equally packed in cartons so that no fruit is left. What is the biggest possible number of cartons needed:
- A. 10 B. 11
C. 210 D. 150

STEP ENTRY TEST 2021



Logical Reasoning

ANSWER KEY (Worksheet-1)

1	B	6	A
2	B	7	A
3	B	8	B
4	C	9	C
5	C	10	B

ANSWERS EXPLAINED

1. Ans: (B)

Logically: All prime numbers are odd other than 2 and only possibility is

$$\text{odd} + \text{odd} + \text{odd} + \text{odd} + 2 = \text{even}$$

2. Ans: (B)

e.g. 24950

subtract 2 from 5 we will get

24930, the number will decrease by 20

3. Ans: (B)

$$3 + 5 = 3(3)(5) = 45$$

4. Ans: (C)

$$a = \frac{1}{100} \quad a^2 = \frac{1}{10000}, \quad \sqrt{a} = \frac{1}{10}$$

5. Ans: (C)

$$4x + 9y = 4(2) + 9(5) = 8 + 45 = 53$$

6. Ans: (A)

$$\frac{6}{24 \times 2} = \frac{1}{8}$$

$$\frac{1}{8} \text{ or } 8^{\text{th}}$$

7. Ans: (A)

$$\frac{1}{2} - \frac{1}{3} = \frac{3-1}{6} = \frac{1}{6}$$

Total time for B = 6 hours

8. Ans: (B)

$$0 + 4 + 4 + 4 + 4 = 16 \text{ hours}$$

9. Ans: (C)

$$2 - .5 = 1.5 \text{ feet in one minute}$$

$$= 15 \text{ feet} \Rightarrow \frac{1}{1.5} \times 15 = 10 \text{ minutes}$$

10. Ans: (B)

2	210 - 252
3	105 - 126
7	35 - 42
	5 - 6

$$H.C.F. = 2 \times 3 \times 7 = 42 \text{ fruits in each box}$$

$$\text{No. of boxes} = \frac{210}{42} + \frac{252}{42} = 5 + 6 = 11$$

STOP

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