1. Rs. 7,500 is borrowed at C.I. at the rate of 2% for the first year, 4% for the second year and 5% for the third year. The amount to the paid after 3 years will be

(a) 8235.00

(b) 8432.00

(c) 8520.20

(d) 8353.80

Answer: d

Explanation:

Amount = P (1 + r1/100) (1 + r2/100) (1 + r3/100) = Rs. 8353.80

2. If a: 5 = b: 7 = c: 8, then (a + b + c)/a is equal to

(a) 2
(b) 4
(c) 7
(d) 1/4

Answer: b

Explanation:

Given, a: 5 = b: 7 = c: 8

Let a/5 = b/7 = c/8 = k

Then, a = 5k, b = 7k, c = 8k

Now, (a + b + c)/a = k (5 + 7 + 8)/5k = 4

3. **P, Q, R are employed to do work for Rs. 5750. P and Q together finished 19/23 of work and Q and R together finished 8/23 of work. The wage of Q, in rupees, is:**

(a) 2850

(b) 3750

(c)2750

(d)1000

Answer: d

Explanation:

Work done by Q = 19/23 + 8/23 – 1 = 4/23

We know wage of Q = 4/23 × 5750

= Rs. 1000

4. 4, 24, 120, 480, 1440, 2880, ?

(a) 3600
(b) 4800
(c) 2880
(d) 5760

Answer: c

Explanation:

The terms in the question are multiplied by 6, 5, 4, 3 and so on.

5. **11, 23, 48, 99, 202, 409, ?**

(a) 818

(b) 820

(c) 824

(d) 832

Answer: c

Explanation:

23 = 11 × 2 + 1; 48 = 23 × 2 + 2; 99 = 48 × 2 + 3; 202 = 99 × 2 + 4; and so on.

6. **Two trains of equal lengths are running on parallel lines in the same directions at the rate of 92 km/h and 72 km/h respectively. The faster train passes the slower train in 54 seconds. The length of each train is**

(a) 500 m.

(b) 180 m.

(c)150 m.

(d)240 m.

Answer: c

Explanation:

Speed of faster train relative to slower train

= (92 – 72) km/h = 20 km/h

= 20 × (5/18) = 50/9 m/s

Distance covered in 54 seconds = (50/9) X 54 m = 300 m

2 x length of each train= 300m

Length of one train = 150 m

7. 11, 17, 23, 31, 41, 47, ?

(a) 51

(b) 59

(c)61

(d)67

Answer: b

Explanation:

All numbers are prime numbers with one prime number missing between any pair of consecutive terms.th of each train = 150 m

8. A boy and a girl together fill a cistern with water. The boy pours 4 litres of water every 3 minutes, and the girl pours 3 litres every 4 minutes. How much time will it take to fill 100 litres of water in the cistern?

(a) 36 minutes

(b) 42 minutes

(c)48 minutes

(d)44 minutes

Answer: c

Explanation:

Water filled by 1 boy in 1 min = 4/3 litres

Water filled by 1 girl in 1 min = 3/4 litres

Water filled by both = 25/12 litres

Time taken to fill 100 litres = 100 x (12/25) = 48 min