MATHS

1.  5–[4–{3–(3–3–6)}] is equal to :

(1) 10                                                          (2) 6

(3) 4                                                            (4) 0

Answer: (1) 10

2. The value of 25 – 5 [2 + 3 (2 – 2 (5 – 3) + 5) – 10] ÷ 4 is :

(1) 5                                                            (2) 23.25

(3) 23.75                                                     (4) 25

Answer: (3)23.75

3. Simplify : [0.9 – {2.3 – 3.2 – (7.1 – 5.4 – 3.5)}]

(1) 0.18                                                        (2) 1.8

(3) 0                                                             (4) 2.6

Answer: (3) 0

4. The sum of the cubes of the numbers 22, –15 and –7 is equal to

(1) 6930                                                       (2) 9630

(3) 3                                                             (4) 0

Answer: (1) 6930

5. A train is travelling at the rate of 45km/hr. How many seconds it will take to cover a distance of 4 5 km ?

(1) 36 sec.                                                  (2) 64 sec.

(3) 90 sec.                                                    (4) 120 sec.

Answer: (2) 64 sec.

6. The speed of a bus is 72 km/hr. The distance covered by the bus in 5 seconds is

(1) 100 m                                                     (2) 60 m

(3) 50 m                                                       (4) 74.5 m

Answer:  (1) 100m

7. The degree measure of 1 radian (taking π= 22/7 ) is:

(1) 57°61’22”(approx.)                   (2)57°16’22”(approx.)

(3)57°22’16” (approx.)                              (4) 57°32’16” (approx.)

Answer: (2) 57°16’22” (approx.)

8. If a : b = 7 : 9 and b : c=15 : 7, then what is a : c?(1) 5 : 3 (2) 3 : 5(3) 7 : 21 (4) 7 : 15

Answer: (1) 5 : 3

9.. If A : B = 2 : 3, B : C = 2 : 4 and C : D = 2 : 5, then A : D is equal to :(1) 2 : 15 (2) 2 : 5(3) 1 : 5 (4) 3 : 5

Answer: (1) 2 : 15

10. If x : y = 2 : 5, then (5x + 3y) : (5x – 3y) is equal to(1) 5 (2) 3(3) –3 (4) –5

Answer: (4) -5