

a. 1050

b. 5100

c. 1500

d. 1250

442. Seven carpenters and 5 masons earn a total of 2,300 per day. At the same rate of pay 3 carpenters and 8 masons earn 2,040. What are the wages per day of the carpenter and a mason?

a. 200 & 180

b. 300 & 210

c. 210 & 170

d. 270 & 150

443. A man and a boy can do 15 days a piece of work which would be done by 7 men and 9 boys in 2 days. How long would it take one man do it alone?

a. 20 days

b. 30 days

c. 15 days

d. 40 days

444. A certain two-digit number is 1 less than five times the sum of its digits. If 9 were added to the number, its digits would be reversed. Find the number.

a. 34

b. 36

c. 43

d. 63

445. If one root of $9x^2 - 6x + k = 0$ exceeds the other by 2, find the value of k.

a. 8

b. 6

c. -8

d. -6

446. Solve: $\sqrt{(2x - 5)} - \sqrt{(x - 2)} = 2$.

a. 3

b. 18

c. 9

d. 27

447. A speed boat going across a lake 8 km wide proceeds 2 km at a certain speed and then completes the trip at a speed $\frac{1}{2}$ km/hr faster. By doing this, the speed arrives 10 minutes earlier than if the original speed had been maintained. Find the original speed of the speed boat.

a. 5 km/hr.

b. 4 km/hr.

c. 7 km/hr.

d. 6 km/hr.

448. An audience of 540 people is seated in rows having the same number of persons in each row. If 3 more persons seat in each row, it would require 2 rows less to seat the audience. How many persons were in each row originally?

a. 17

b. 30

c. 27

d. 31

449. Find the third proportional to 4 and 12.