

**Answer The Following**

- 1) The digits of a 2 digit number add up to 6. If you add 18 to the number, the digits get reversed. Which is the number?
- 2) Karen and Debra both run at hundred inches race. Karen runs by 4 inches. For the next race, Karen starts 10 in 4 inches behind the original starting line, and Debra starts 10 in the original starting line. If they both run at the same speed in which they ran the original race, who will win this race, and by how many inches?
- 3) If mean and median of a sequence are numerically equal, find numerical value of side length.
- 4) Due to a 40% increase in price of rice, Richard now has to buy 4 kg less rice to keep his total expenditure on rice unchanged. If he spends \$840 on rice, find the new price of rice per kg.
- 5) If two sixths of a number is 18 less than the two fourths of the number, find the number.

**Choose correct answer(s) from given choice**

- 6) If  $3x + 2y = 6$  then which of the following x and y values is true?

a. $x=3$ , $y=\frac{0}{2}$	b. $x=\frac{0}{3}$ , $y=\frac{1}{2}$
c. $x=2$ , $y=\frac{1}{2}$	d. $x=2$ , $y=\frac{0}{2}$
- 7) The two sides of a rectangle are  $12x$  and  $28x + 2$ . If the length of the diagonal of the rectangle is 66, then what is the sum of the rectangle?

a. 3120	b. 3126
c. 3118	d. 3087
- 8) In an exam 3 marks are awarded for each correct answer; and one mark is deducted for each incorrect answer. If Kunal has attempted 30 questions and scores 34 marks, find the number of correct answers.

a. 23	b. 17
c. 28	d. 29
- 9) If you added 3 to the numerator and denominator in fraction, the result is  $\frac{8}{11}$ . If, however, you subtracted 3 from the numerator and denominator, you get  $\frac{4}{7}$ . What is the original fraction?