Department of Mathematics

Descriptive Questions-Short Answer Type (2 marks each)

Q1.	If the product of a number and 12 is 72.Find the number
Q2.	The sum of three times a number and 9 is 42 ,Find the number
Q3.	Solve: (1) 4y +5 = 65 (2)) 3(m +2) = 12

Descriptive Questions- Long Answer Type 1 (3 marks each)

Q4.	The sum of two times a number and 15 is 47.Find the number.
Q5.	Solve : (1) 4 – 3(t +6) = 7 (2) 2x +8 = 5x -13
Q6.	Seven times the number is 36 less than 10 times the number. Find the number.
Q7.	A number is 12 more than the other. Find the numbers if their sum is 48.
Q8.	Set up the equations for given statements : (a) 4 less from thrice a number m is 14. (b) A number x divided by 4 gives 3. (c) 7 less than a number x is 4. (d) Two -third of a number is 16 (e) 3 more than 5 times a number is 27
Q9.	If 6 is subtracted from the number and the result is multiplied by 10,the answer is 30 find the number.
Q.10	A shopkeeper sells apples in two types of boxes, one small and one large. Large box contains double as many as small boxes plus six loose apples, the number of apples in large box is 100.find the number of apples in small box.
Q 11	Frame 4 equations starting with p = -3

Descriptive Questions Long Answer Type 2 (4 marks each)

Q.12	In an isosceles triangle, the base angles are equal and the vertex angle is thrice of the base angle. find the vertex angle [Hint: Sum of the angles in a triangle is 180^0]
Q.13	Sarayu's age is three more than seven times Sam's age, if Sarayu is 59 years old, find Sam's age.

Q.14	In a triangle, the second angle is 5° more than the first angle. And the third angle is three times of the first angle. Find the three angles of the triangle.
Q.15	Each of the 2 equal sides of an isosceles triangle is twice as large as the third side. If the perimeter of the triangle is 30 cm, find the length of each side of the triangle

Answers

<table>
<tr><td rowspan="4">Answers</td><td>1</td><td>6</td><td>2</td><td>11</td><td>3</td><td>1)Y=15
2)m=2</td><td>4</td><td>16</td></tr>
<tr><td>5</td><td>1) t=(-7)
2) x=7</td><td>6</td><td>12</td><td>7</td><td>18</td><td>8</td><td>a) 3m -4 =14
b) $\frac{x}{4} = 3$
c) $x - 7 = 4$
d) $\frac{2x}{3} = 16$
e) 5x +3 = 27</td></tr>
<tr><td>9</td><td>9</td><td>10</td><td>47</td><td>11</td><td></td><td>12</td><td>108^0</td></tr>
<tr><td>13</td><td>8 years</td><td>14</td><td>35^0
40^0
105^0</td><td>15</td><td>6cm,
12cm,
12cm</td><td></td><td></td></tr>
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