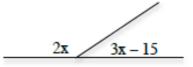


## Year 10 Mathematics Equations Revision 1

- 1 Solve these one step equations b) n - 12 = 10 c) 3p = 7 d)  $\frac{m}{4} = 6$ a) m + 17 = 28 2 Solve these two step equations a) 3m + 5 = 7 b)  $\frac{a+3}{5} = 3$  c) 10 - 3m = 25 d)  $\frac{p}{3} - 6 = 15$ 3 Solve b) 5m - 3 = 2m + 9c) 2-2x = 8 + xa) 3a + 5 = 2a + 74 Expand the grouping symbols and then solve the equations a) 2(a + 4) = 10b) 5(m-3) = 3c) 3(2m-4) = 4m - 65 Expand the grouping symbols and then solve the equations b) 3(x+4) + 2(x-5) = 4a) 3(m + 7) = 4(m - 2)6 If P = 2L + 2B find P if L = 4 and B = 37 If v = u + at find v if u = 1.2 a = 0.5 and t = 12.6 8 If y = 3x - 2 find x if y = 10 9 If A =  $\frac{a+b}{2}$  find a if A = 7 and b= 10
- 10 The product of a certain number and 6 is 72. What is the number?
- 11 If a number is multiplied by 6 and 7 is subtracted from the product, the answer is 23. What is the number?
- 12 The sum of three consecutive integers is 30. What are the integers?
- 13 A rectangle is twice as long as it is wide. If the perimeter is 144 cm, what are the dimensions?
- 14 Find the value of x in this diagram



## ANSWERS

Question 1

a) m = 11	b) n = 22	c) $p = 2\frac{1}{3}$	d) m = 24
Question 2			
a) $m = \frac{2}{3}$	b) a = 12	c) $m = -5$	d) p = 63
Question 3			
a) a = 2	b) m = 4	c) $x = -2$	
Question 4			
a) a = 1	b) m = 3 <sup>3</sup> / <sub>5</sub>	c) 3	