|  |  |  |  |
| --- | --- | --- | --- |
| 1  **Circle Theorems – All Together Now** | Find the size of angles: ABT; OAB; AED; ABD; CBD. | 2 | TQ is a tangent to the circle, centre O. Calculate the size of the angle RQT. |
|  |  |  |  |
| 3 | Show that angle BDC = EAB and that triangle ABE and BCD are similar. | 4 | Find the size of the angles x, y and z. |
|  |  |  |  |
| 5 | Find the size of angles x & y. | 6 | Find in terms of x, y or both the size of angle BHD. Prove that FBCE is a cyclic quadrilateral. Hence, prove that AH is perpendicular to BC. |

# Circle Theorems – All Together Now - Homework

Find the missing angles, making sure you give **all** your reasons.



62

b



75

a



d

21



26

c

Bonus Questions

70

36

f

38

65

59

22

68

e

