Day 266	A Tier 10-a-day
1 Work out $\frac{29.2 + 0.82}{7.9 - 0.19}$ (Calculator) Give your answer correct to 3 significant figures.	
2 Nia's weekly pay is increased by 15%. Her new weekly pay is £736. Work out her weekly pay before the increase.	
3 A regular octagon and a square share the side AB and are on opposite sides of it. The two shapes meet at the point A. Work out the size of the angle at A that is not inside either shape.	
4 Change 450 mm^2 to cm^2.	
5 Solve $\frac{2x - 1}{5} = \frac{2x - 7}{3}$	

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6 A plane leaves an airport and travels 8 km on a bearing of 035°. (Calculator) It then travels 15 km on a bearing of 305°. (a) Work out how far it is now from the airport. (b) Work out the bearing of its final position from the airport. Give your answer to the nearest degree.	
7 Rationalise the denominator of $\frac{18}{3\sqrt{3}}$ Give your answer in its simplest form.	
8 Expand and simplify $(x - 3)(3x - 3)(x + 2)$	
9 Solve the simultaneous equations $x^2 + y^2 = 25$ $y = 3x + 15$	
10 Isla and Hugo each invest £1000 for 3 years. (Calculator) Isla's account pays 3% simple interest per year. Hugo's account pays 3% compound interest per year. Work out how much more interest Hugo earns than Isla.	