

## S2 (M) Maths Homework 9

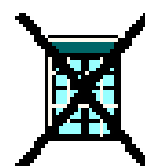
1) Write out these numbers in full.

a)  $8.3 \times 10^4$

b)  $7.45 \times 10^3$

c)  $5.97 \times 10^5$

d)  $2.643 \times 10^2$



2) Convert these numbers into Scientific Notation.

a) 0.32

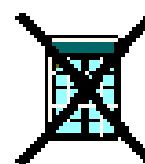
b) 0.005

c) 0.078

d) 0.000 093

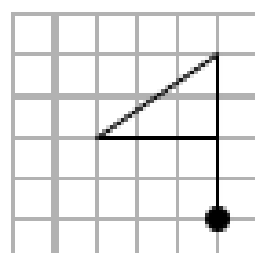
e) 0.000 007 1

f) 0.000 000 07

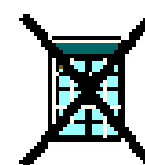
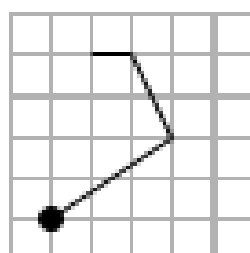


3) Complete these drawings so that they have quarter turn symmetry about the dot.

a)



b)

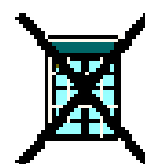


4) Measure the length of this piece of paper.

The teacher will accept an answer of  $(210 \pm 3)\text{mm}$ .

a) What is the highest answer the teacher will accept?

b) What is the lowest answer the teacher will accept?



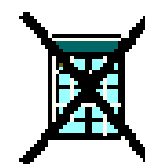
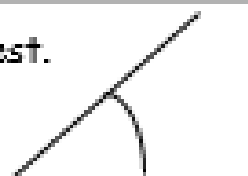
5) A pupil is asked to measure this angle in a test.

The angle is  $42^\circ$ .

The marking scheme allows  $(42 \pm 2)^\circ$ .

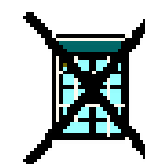
The pupil says the angle is  $44^\circ$ .

Does the pupil get the mark? Fully explain your answer.



6) Apples on sale at a particular supermarket must have a diameter of between 5 cm and 7 cm.

Write this in tolerance notation.



7) For safety reasons a rivet joint in an aeroplane must be between 19.8 mm and 20.2 mm.

Write this in tolerance notation.

