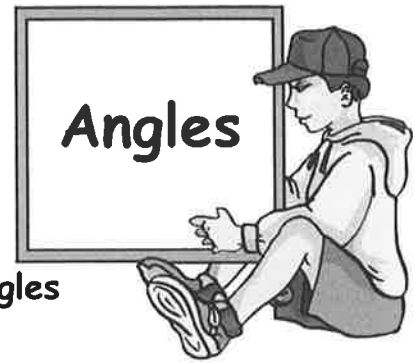
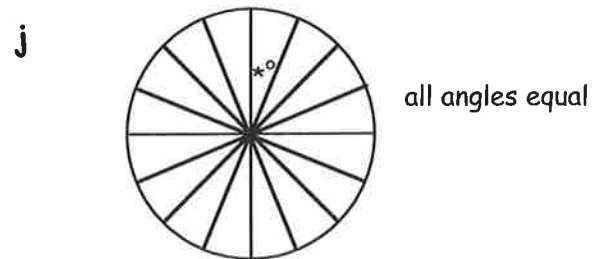
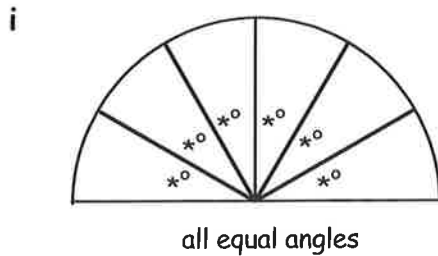
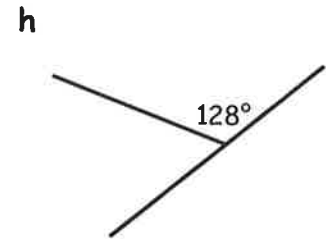
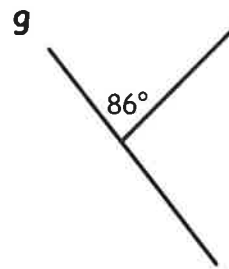
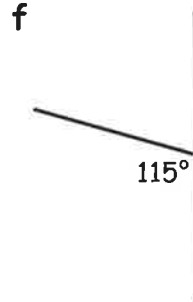
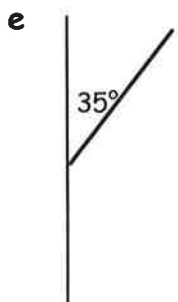
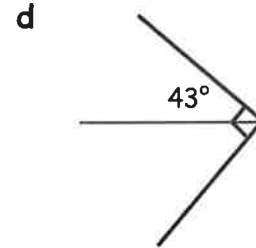
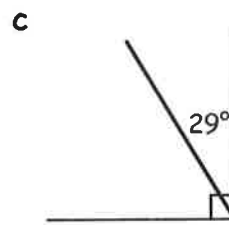
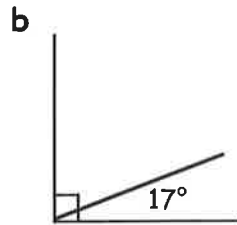
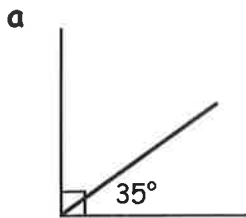


CHAPTER 3



Exercise 1 Complementary & Supplementary Angles

1. Calculate the missing angles in each of the following :-



2. Write down the complement of :-

a 60°

b 20°

c 37°

d 1°

3. Write down the supplement of :-

a 30°

b 110°

c 77°

d 9.5°

4. What angle is its own :-

a complement

b supplement ?

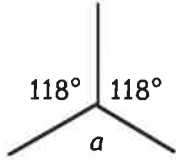
5. What is the **sum** of all the angles round a point ?

Exercise 2

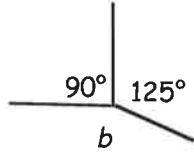
Angles Round a Point

1. Calculate (do not measure) the sizes of the angles marked a, b, c, \dots

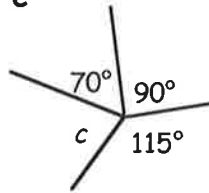
a



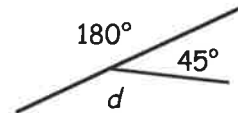
b



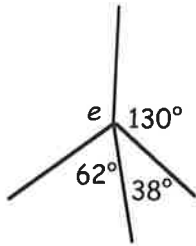
c



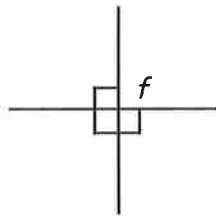
d



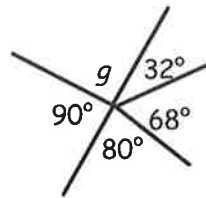
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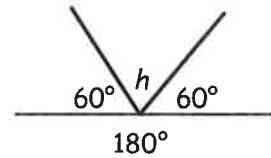
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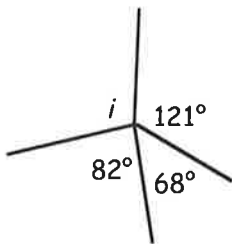
g



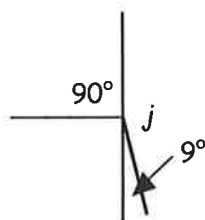
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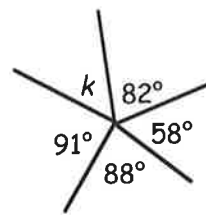
i



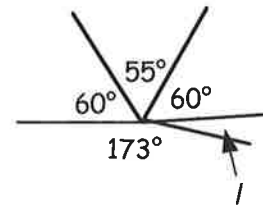
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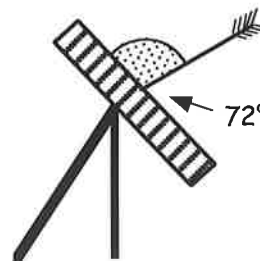
k



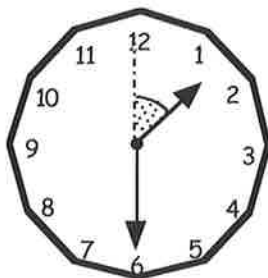
l



2. An arrow lands on a target as shown. Calculate the size of the shaded angle.



3.

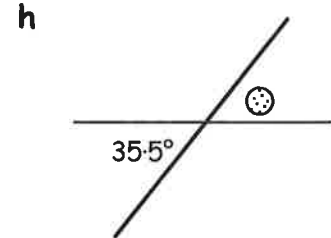
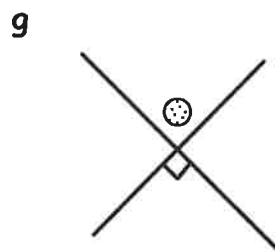
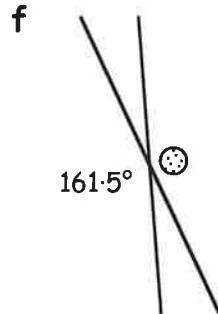
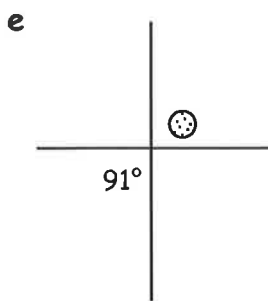
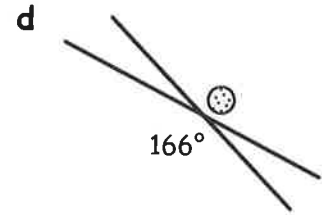
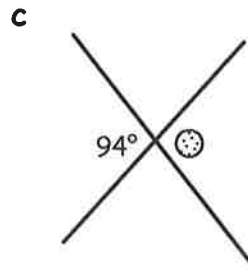
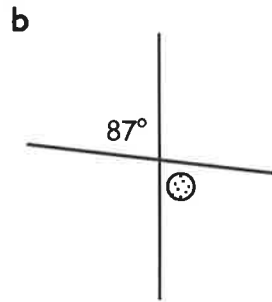
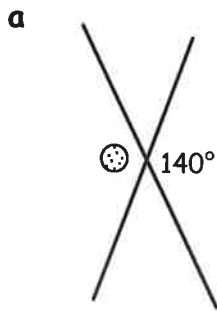


This clock shows a time of 1.30.
Calculate the size of the shaded angle.

4. Five angles round a point are $39^\circ, 122^\circ, 77^\circ$, and two unknown **equal** angles. Find one of the unknown angles.

Exercise 3 Vertically Opposite Angles

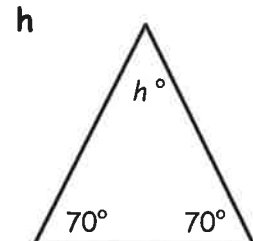
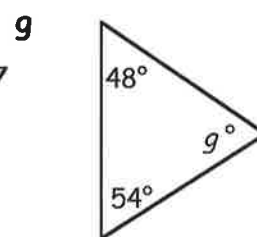
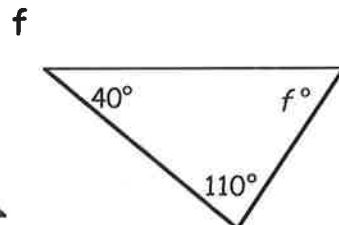
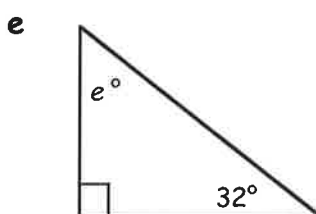
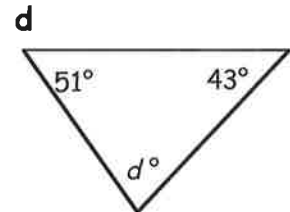
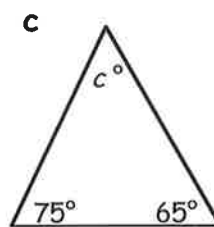
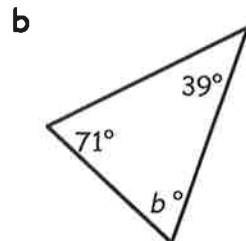
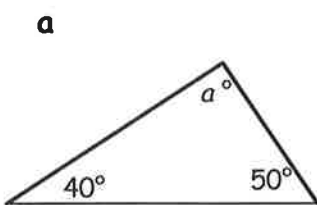
1. Write down the sizes of all the angles marked with a ☉.



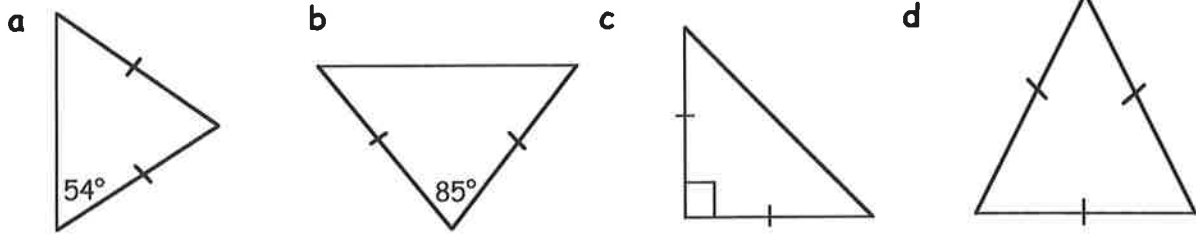
2. Sketch all the diagrams above and fill in all the missing angles.

Exercise 4 Angles in a Triangle

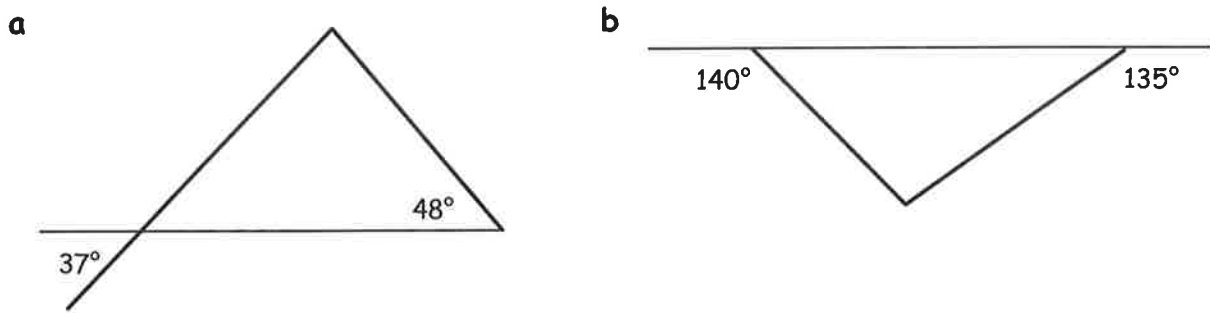
1. Calculate the size of the angles marked a , b , c ,



2. Copy each diagram below and fill in all the missing angles :-



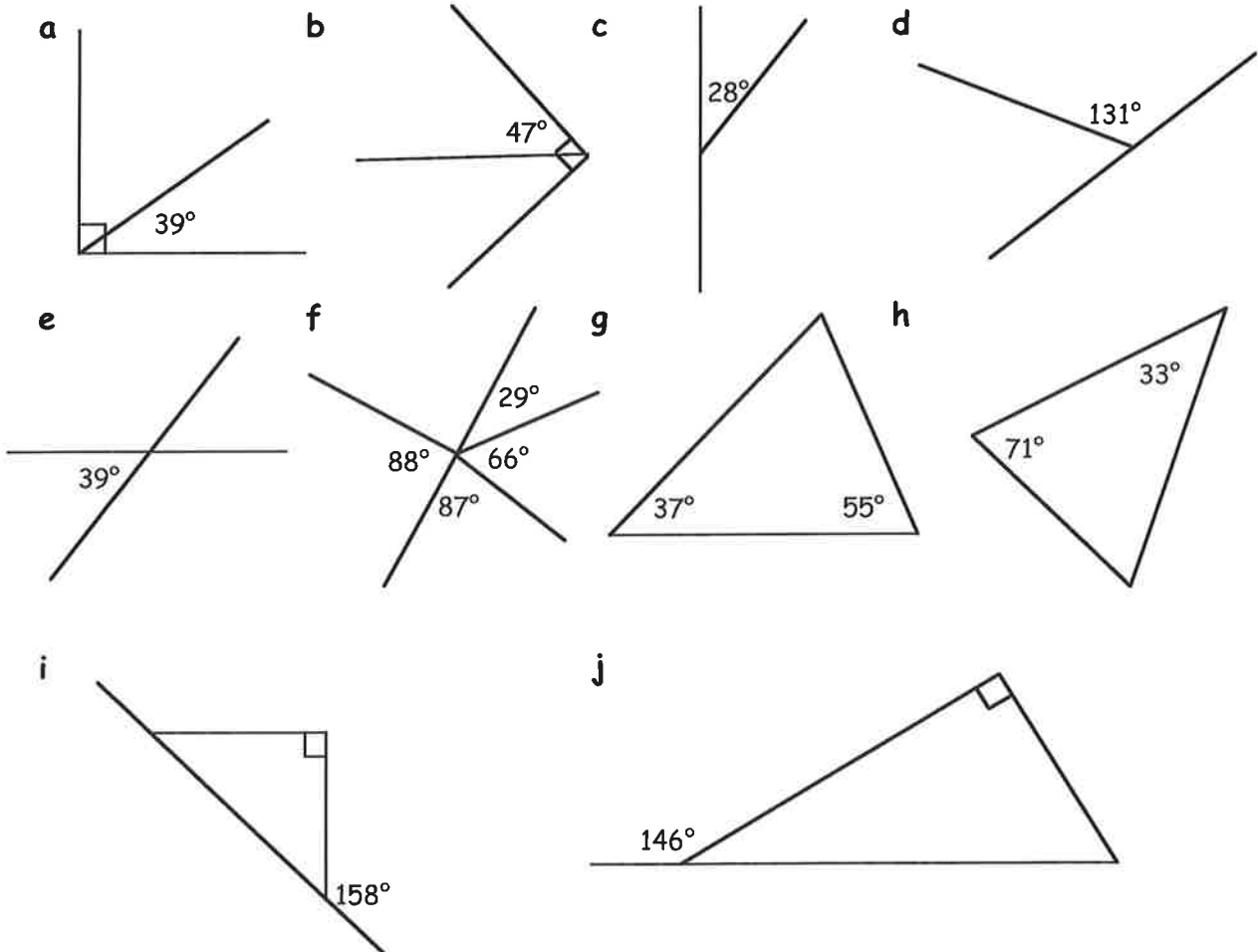
3. Copy each diagram below and fill in all the missing angles :-



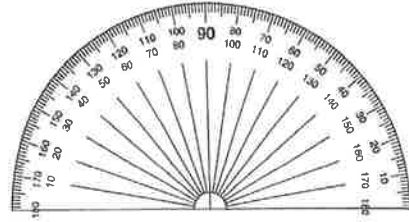
Exercise 5

Angles Mixed Exercise

1. Copy all the diagrams below filling in all missing angles :-



Revisit - Review - Revise Exercise 3



1. What is the :-
 a complement of 65°
 b supplement of 115° ?

2. Copy each diagram below, filling in all missing angles :-

