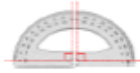
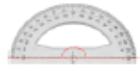


There are degrees in a right angle.



There are right angles on a straight line.



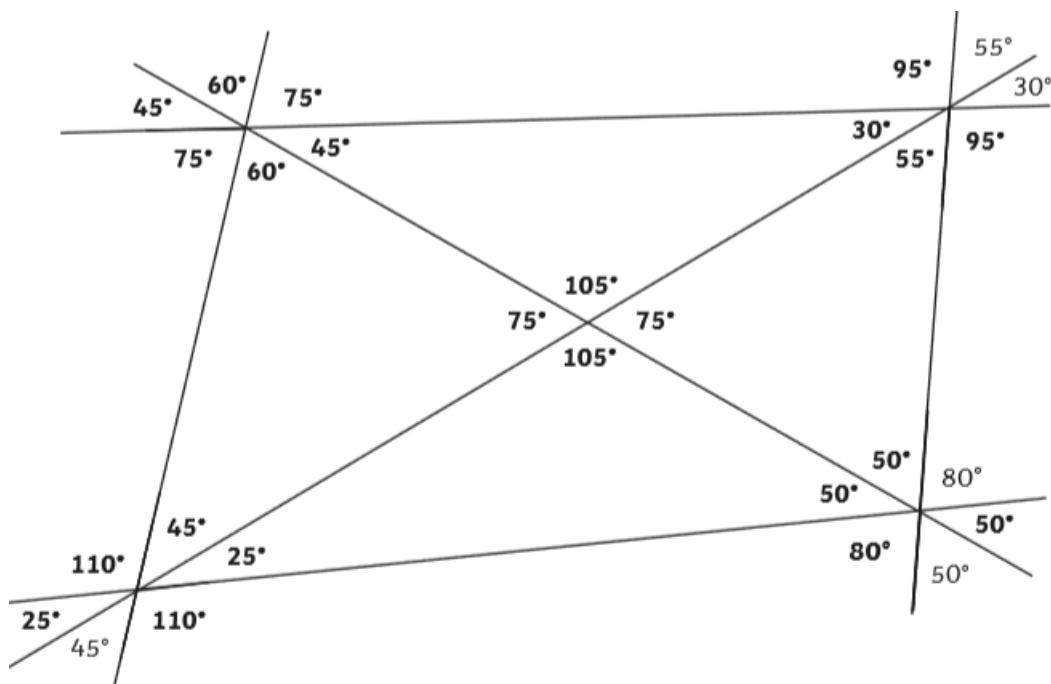
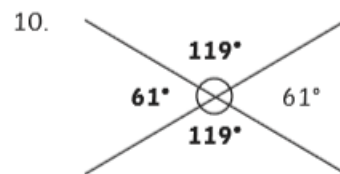
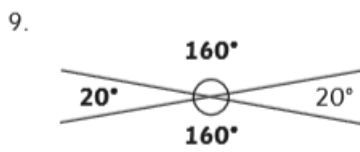
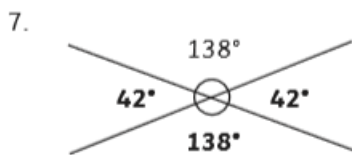
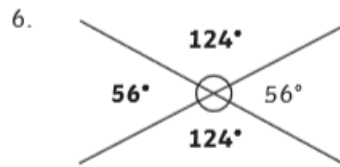
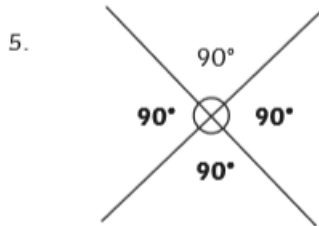
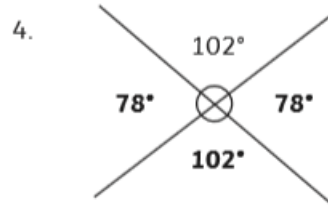
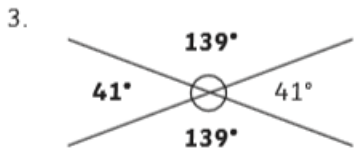
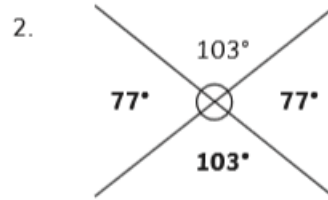
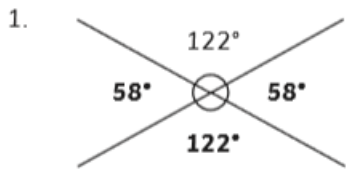
There are degrees on a straight line.

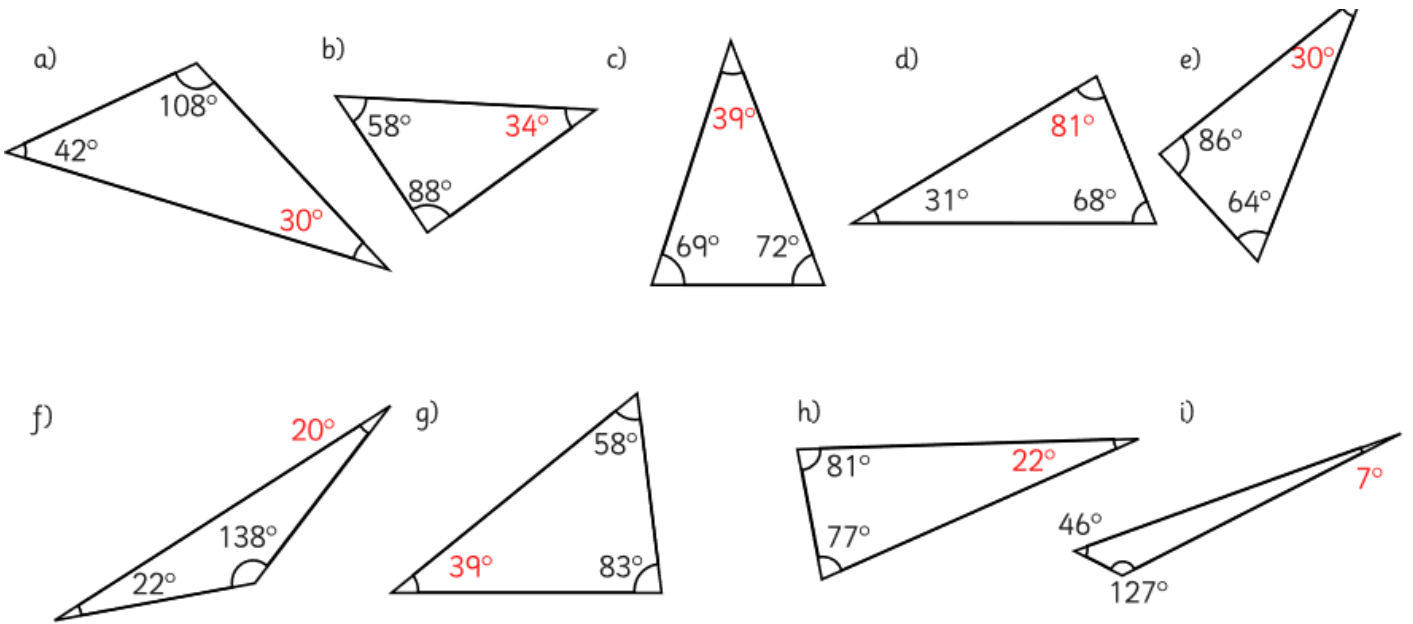
Complete the table.

Angle	Fraction of a turn	Degrees
Right angle	$\frac{1}{4}$	90°
Straight line		
Three right angles		
Full turn		

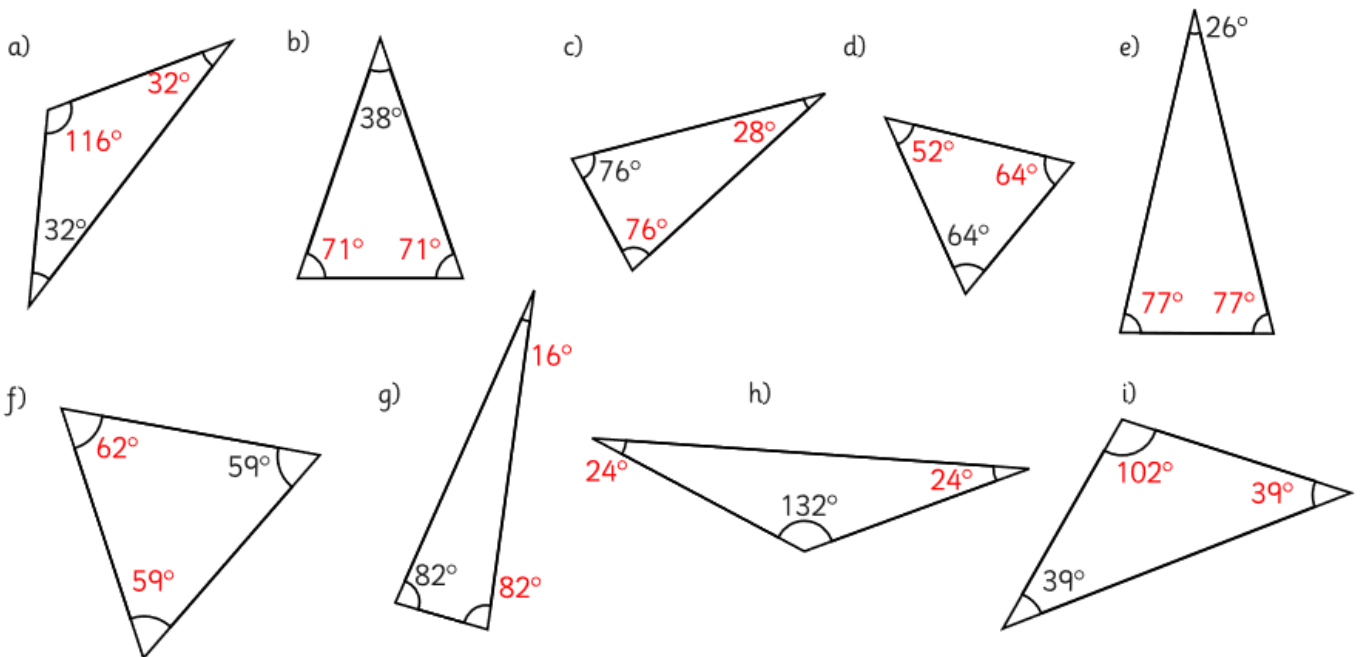
Page 1

- a. 9° acute
- b. 21° acute
- c. 33° acute
- d. 42° acute
- e. 68° acute
- f. 78° acute
- g. 73° acute
- h. 82° acute





Calculate the missing angles in these Isosceles triangles.



Mark schemes

Q1.

Answers in the range 74° to 76° inclusive.

[1]

Q2.

Award **TWO** marks for three letters in the correct regions of the sorting diagram, as shown:

A		B
D	C	

Award **ONE** mark for two letters in the correct regions of the sorting diagram.

*Do not accept letters that are written in more than one region.
Accept alternative indications such as lines drawn from the shapes to the appropriate regions of the sorting diagram.*

Up to 2

[2]

Q3.

(a) 56

1

(b) 34

*If the answers to (a) and (b) are incorrect, award **ONE** mark if their (a) plus their (b) = 90° , provided that (b) is **not** 45° , 30° or 60° .*

1

[2]

Q4.

(a) $x =$

1

(b) $y =$

*If the answers for (a) and (b) are transposed, but otherwise correct, award **ONE** mark only, in the (b) box.*

1

[2]

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

Q5.

Award **TWO** marks for correct answer of 170°

Up to 2

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg:

- $50 + 50 + 90 = 190$
 $360 - 190$

OR

- $360 - 50 - 50 - 90$
*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

Q6.

25

[1]

- (a) 400

2

or

Shows or implies a complete correct method, eg:

- $30\% - 25\% = 5\%$
 $5\% = 20$
 $100\% = 20 \times 20$

1

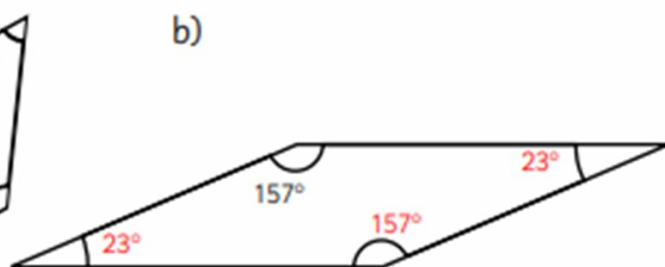
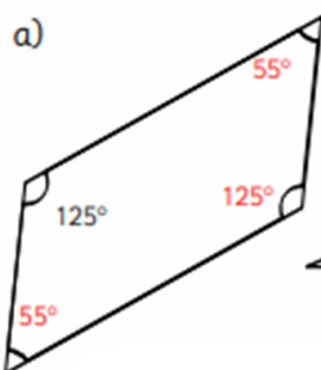
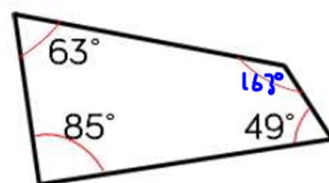
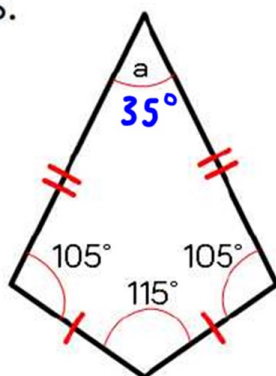
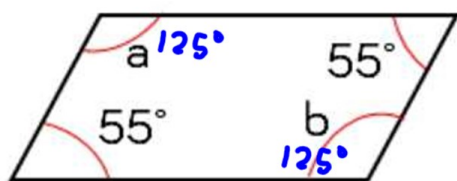
- (b) 111.6 **or** 112

Do not accept 111

1

[3]

Calculate the missing angles.



Shape	Number of Angles	Interior Angle	Total of All Interior Angles
e.g. equilateral triangle	3	60°	180°
square	4	90°	360°
regular pentagon	5	108°	540°
regular hexagon	6	120°	720°
regular octagon	8	135°	1080°
regular nonagon	9	140°	1260°
regular decagon	10	144°	1440°
regular dodecagon	12	150°	1800°

