Name	
Form	
Teacher	

Maths Homework Booklet

Year 9 Spring 1

Set 4,5

Topic	Score achieved	Sparx %
1. Names and sketches of 3D shapes	/16	%
2. Edges, faces and vertices	/18	%
3. Nets of 3D shapes	/6	%
4. Angles (basics)	/9	%
5. Angles in triangles	/9	%
6. Angles in parallel lines	/23	%

Week 1

Question 1: Draw the following 3D shapes

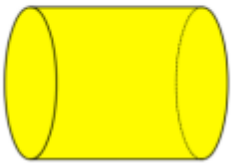
(a) A cube (b) A cuboid (c) A sphere

(d) A cylinder (e) A triangular prism (f) A cone

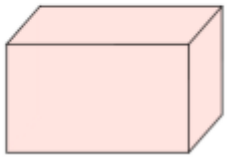
(g) A square-based pyramid (h) A tetrahedron/triangular-based pyramid

Question 2: Name each of the 3D shapes below

(a)

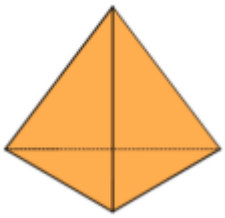


(b)



(c)

(d)



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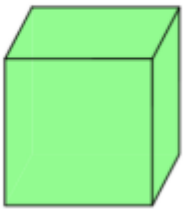

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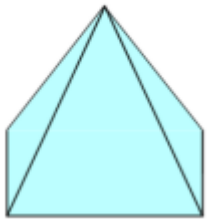
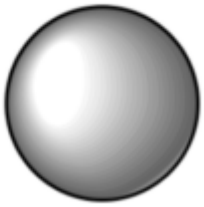
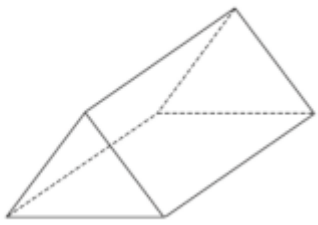


(g)



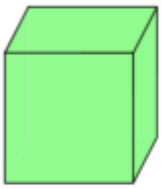
(h)

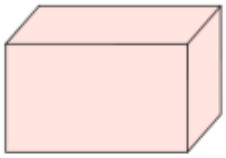


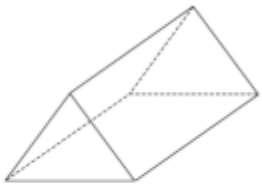
Sparx – Homework Answers

Week 2

Question 1: For each 3D shape below, write down how many edges, faces and vertices it has.

(a) 

(b) 

(c) 

(d) 

(e) 

(f) 

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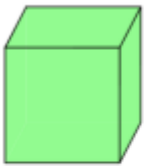
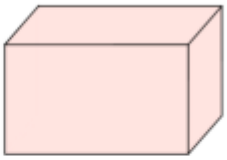
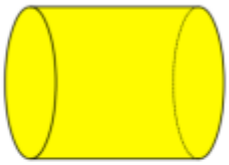
Week 3

Question 1: Draw the nets for these 3D shapes

(a) 

(b) 

(c) 

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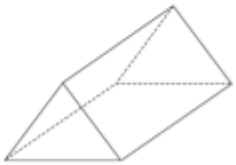
(e) 

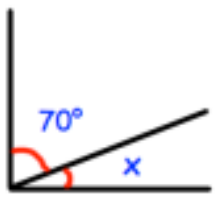
(f) 

Sparx – Homework Answers

Week 4

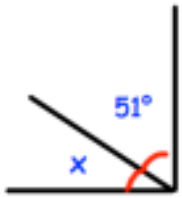
Question 1: Calculate the size of the missing angles

(a)



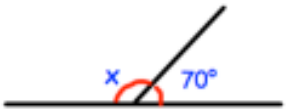
(b)

(c)



Question 2: Calculate the size of the missing angles

(a)



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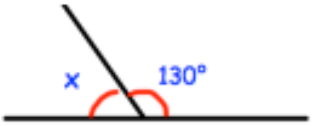
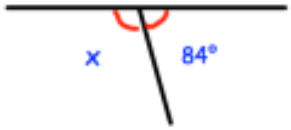
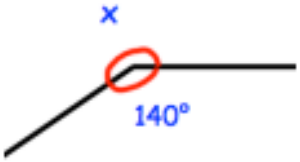


(c)



Question 3: Calculate the size of the missing angles

(a)



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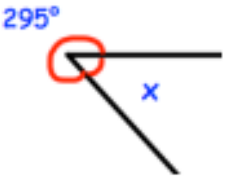

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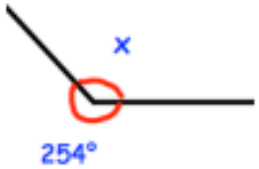
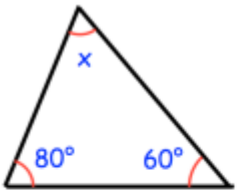


Sparx – Homework Answers

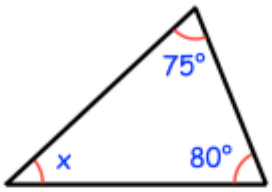
Week 5

Question 1: Find the size of each missing angle.

(a)



(b)



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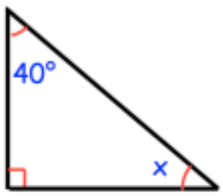

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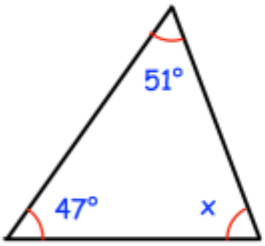

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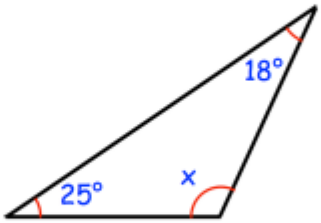
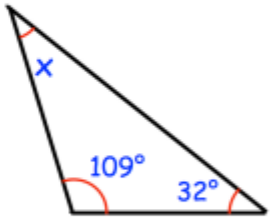


(f)



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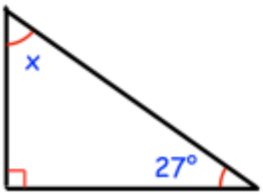

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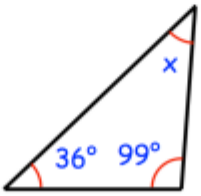
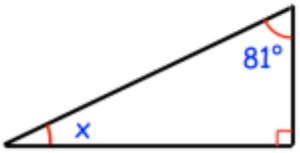


(i)



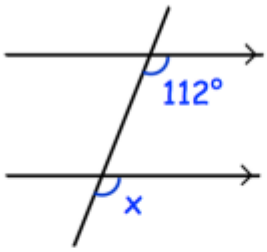
Sparx – Homework Answers

Week 6

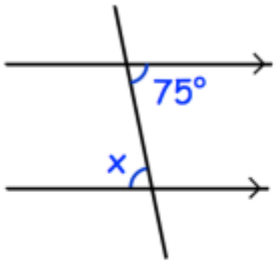
Give reasons for your answers.

Question 1: Write down the sizes of the lettered angles.

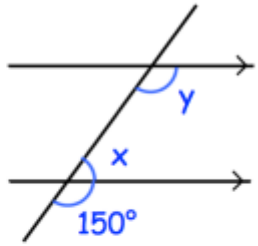
(a)



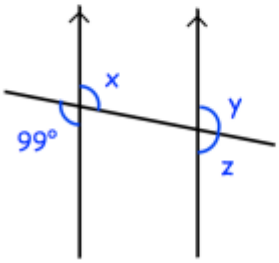
(b)



(c)



(d)



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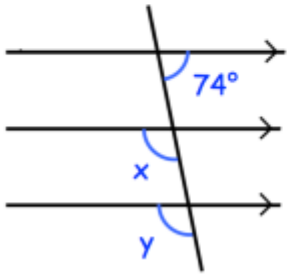

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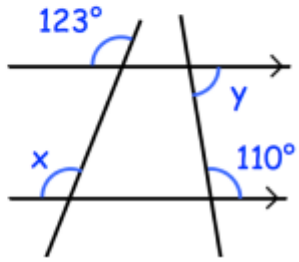

Sparx – Homework Answers