

Grade 6 - Maths

Student Review Pack

Week	Topic	Lesson	Resources
Week 13	Algebra	Introduction	KS3 One page 56-60
Week 14	Algebra	Substitution & Formulae	KS3 One page 61-64
Week 17	Algebra	Sequences	KS3 One page 235
Week 18	Geometry	Angles & Triangles	KS3 One page 110-111
Week 19	Geometry	Quadrilaterals	KS3 One page 113-114
Week 20	Geometry	3D Shapes	-

*if KS3 One Maths Textbook is not available, use notes and booklets provided in class.

Algebra

1. Match each term to its correct definition:

constant	a group of terms and operators
equation	part of an expression separated by operators (like $\times \div + -$)
coefficient	a number alone
variable	a number used to multiply the variable
term	has an equal sign to show that both sides are balanced
expression	a letter that represents a number

2. Simplify by collecting like terms:

a) $6x + 5 + 12x - 6$ _____

b) $2x^2 - 4 + 9x^2 + 9$ _____

c) $y + y + y + y + y$ _____

d) $5x - 8 + 7x - 2x^2 - 4 + 9x^2 + 4x^3$ _____

e) $5a + 8 - 7a$ _____

f) $5ab + 8 + 6ba - a + 3b$ _____

g) $y \times y \times y$ _____

KS3 Maths Progress One Unit 3.3 STEM: Using formulae
Answer page 62 Q11 and 12

11 **STEM** To convert from $^{\circ}\text{C}$ (C) to Kelvin (K) scientists use the formula $K = C + 273$.

Convert these temperatures to Kelvin.

- a 100°C b -20°C c 0°C d -100°C

12 **STEM** The formula for converting from temperature in Fahrenheit (F) to Celsius (C) is $C = \frac{5(F - 32)}{9}$.

Convert these temperatures into $^{\circ}\text{C}$.

- a 41°F b 59°F c 77°F d 23°F

11.

- a)
b)
c)
d)

12.

- a)
b)
c)
d)

Algebra - Sequences

Write the next 3 terms:

4, 9, 14, 19, _____, _____, _____

28, 22, 16, 10, _____, _____, _____

What is the rule to find the next term?

4, 6, 8, 10, 12

Rule: _____

22, 18, 14, 10, 6

Rule: _____

9, 12, 15, 18, 21

Rule: _____

What is the rule to find the n th term?

4, 6, 8, 10, 12

Rule: _____

22, 18, 14, 10, 6

Rule: _____

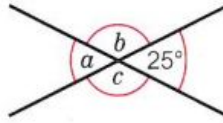
9, 12, 15, 18, 21

Rule: _____

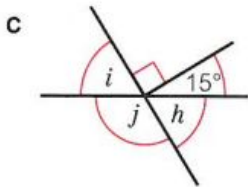
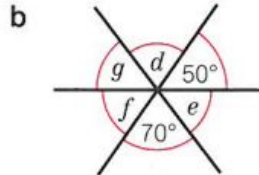
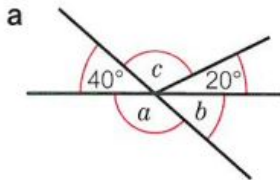
Geometry - Angles & Triangles

KS3 Maths Progress One Unit 5.1 Angles and parallel lines
Answer page 108 Q4 and 5

- 4 **Reasoning** Work out the angles marked with letters.
Give your reasons.

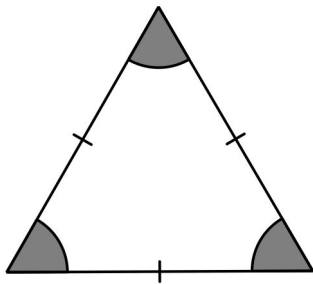


- 5 **Reasoning** Work out the angles marked with letters.
Give reasons for your answers.



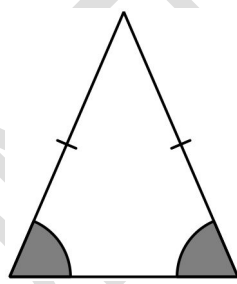
Name these four triangles and write a sentence about each:

Name:



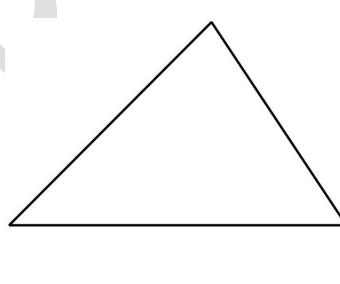
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Name:



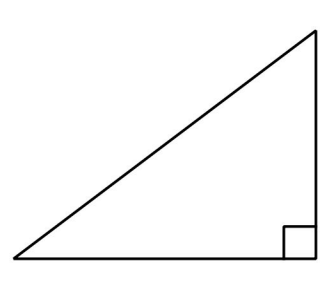
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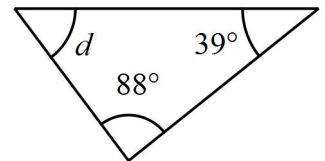
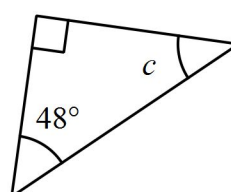
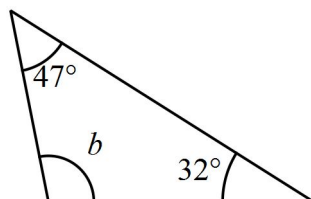
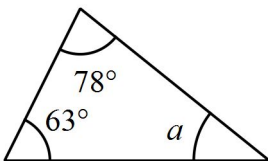
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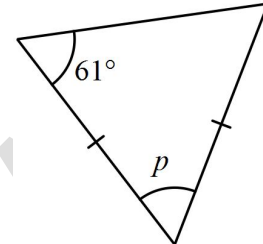
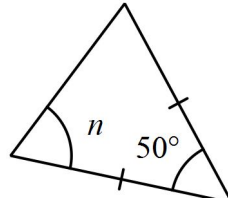
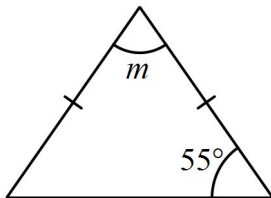
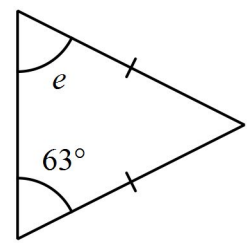
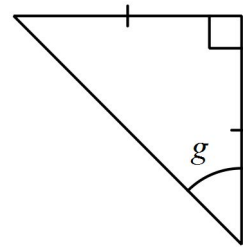
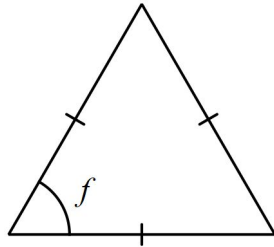
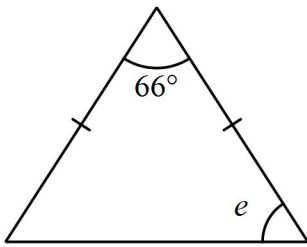
Name:



Describe:

Calculate the missing angles in the below triangles:





- a)
- b)
- c)
- d)
- e)

- f)
- g)
- e)
- m)
- n)
- p)

Geometry - 3D Shapes

A net is a 2D pattern that you can fold into a model of a solid 3D shape.

Look at the following nets; name the 3D shapes and count the number of faces, edges and vertices.

	Name of 3D Shape	Faces	Edges	Vertices