Year 7 Mathematics Unit 6 – Student





Name:

Class:

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1 Sets and Venns

1.1 Sets

A set is a collection of numbers, or letters, or symbols, or objects, etc., which are related in some way.

The items in a set are called 'members' or 'elements'

Curly brackets (often called 'braces') are usually used when listing or describing sets – this helps to distinguish sets from lists of unrelated items.

The elements within a set are usually described in words or listed

Examples:

Description in words	List of elements
{even numbers less than 11}	{2, 4, 6, 8, 10}
{the first five prime numbers}	{2, 3, 5, 7, 11}
{multiples of three between 10 and 20}	{12, 15, 18}
{factors of 27 which are even}	{}

More examples of sets:

Description in words	List of elements
{quadrilaterals with four equal length sides}	{square, rhombus}
{vowels}	{a, e, i, o, u}
{letters in the word 'banana'}	{a, b, n}
{yellow fruit}	{grapefruit, banana, lemon,}

Notes:

Elements are only ever included once – as shown with {letters in the word 'banana'} = $\{a, b, n\}$ {yellow fruits} is an imprecise description and the list of elements contains only examples.

						١	No	rke	ed	Exa	am	ple	9			
Lis a) b) c) d)	t th {fa {tł {le {p	the following sets: factors of 15} the first four square numbers} [letters in the word LONDON} [possible outcomes when an ordinary coin is thrown}														

	Fluency Practice	
A4 List {consonants in the word 'MATHS'}	 B4 List <pre>{vowels in 'SQUARE ROOT'} <pre>{vowels in 'SQUARE ROOT'} C4 List <pre>c0 List <pre>{countries in the United Kingdom} days of the week which contain an 'E' </pre> <pre>b4 List <pre>{days of the week which contain an 'E' </pre> <pre>corange, yellow, indigo, violet} </pre></pre></pre></pre></pre>	
A3 List {vowels in the word 'NUMBER'}	 B3 List {letters in the word 'ISOSCELES'} C3 List C3 List (colours in the rainbow) (colours in the rainbow) (colours in the rainbow) E3 List E3 Describe the following set: {north, east, south, west} 	
A2 List {the first six consonants}	 B2 List (consonants in the word 'SETS') (consonants in the word 'SETS') C2 List (seasons in the year with four letters) D2 List P2 List (seasons in the year with four letters) E2 Describe the following set: (square, rhombus) 	
AI List {vowels}	B1 List {vowels in the word 'ALGEBRA'} {rowels in the word 'ALGEBRA'} C1 List {days of the week} D1 List {first three months of the year} E1 Describe the following set: {spring, summer}	

1.2 Multiple Sets

When we have more than one set, capital letters are usually used to represent them.

Examples:

Description in words	List of elements
$A = \{$ prime numbers between 10 and 20 $\}$	$A = \{11, 13, 17, 19\}$
$B = \{ \text{factors of } 24 \}$	$B = \{1, 2, 3, 4, 6, 8, 12, 24\}$
$C = \{\text{vowels}\}$	$C = \{a, e, i, o, u\}$

Note that it is often convenient to use letters that are in some way connected to the description of the set.

e.g. $P = \{\text{prime numbers between 10 and 20}\}, F = \{\text{factors of 24}\} \text{ and } V = \{\text{vowels}\}$

Universal Set

The Universal set is the set of all elements under consideration.

Elements that can be in other sets are restricted to those within the Universal set. For example, if the Universal set was {integers less than 10}, then {prime numbers} would be limited to $\{2, 3, 5, 7\}$.

Likewise if the Universal set was {even numbers}, then {factors of 18} would be {2, 6, 18}

Notation

In Britain the special symbol ' \mathcal{E} ' is used to represent the Universal set but in some countries, such as America, the letter 'U' is used.

Thus we could write

 $\mathcal{E} = \{ \text{integers less than 10} \} \text{ or } \mathcal{E} = \{ \text{prime numbers} \}$

Worked Example

											-				
a)	U = { A = { B = { List: i) A ii) B	odd orim nult	nun e nı iple	nbe uml s of	ers le pers 53}	ess 5}	tha	n 15	5}						
b)	U = {f X = {v Y = {le List: i) X ii) Y	first vowe ettei	10 l els} rs in	ette	ers (e w	of tl ord	he a 'EN	IGLI	abe SH'	t} }					
c)	U = {f P = {p E = {e O = {e List: i) P ii) E iii) O	facto prim even odd	ors o e nu nui nun	of 2 umt mbe nbe	4} pers ers} ers}	5}									

				Fl	uer	ncy F	Prac	tice		
A4 List	{even numbers between 3 and 11}	B4 Describe the set:	{11, 13, 17, 19}	C4 D = {integers between -3 and 4}	List set D	D4 S = {square numbers less than 20}	List set S	E4 G = {numbers on a dice} H = {positive integers less than 7}	Are the sets G and H the same?	
A3 List	{all the factors of 12}	B3 Describe the set:	{1, 2, 3, 6, 9, 18}	C3 C = {integers between 4 and 9}	List set C	D3 P = {the first six prime numbers}	List set P	E3 E = {prime numbers less than 20} F = {the first nine prime numbers}	Are the sets \boldsymbol{E} and \boldsymbol{F} the same?	
A2 List	{prime numbers less than 10}	B2 Describe the set:	{1, 3, 5, 7, 9}	C2 B = {negative integers more than 6}	List set B	D2 $F = \{all the factors of 20\}$	List set F	E2 C = {first five multiples of 7} D = {7, 14, 21, 27, 35}	Are the sets C and D the same?	
A1 List	{the first six multiples of 3}	B1 Describe the set:	{1, 2, 3, 4, 5}	C1 A = {positive integers less than 5}	List set A	D1 M = {the first five multiples of 6}	List set M	E1 A = {factors of 20} B = {1, 2, 5, 10, 20}	Are the sets A and B the same?	

Describe these sets in words.

(a) {4, 8, 12, 16, 20, 24, 28}

(b) {1, 4, 9, 16, 25}

```
(c) {Europe, Asia, Africa,...}
```

(d) {1, 2, 3, 4, 6, 12}

List the elements of the sets:

- (a) Multiples of 7 less than 30
- (b) Months of the year
- (c) Factors of 25
- $A = \{factors of 6\}$
- $B = \{ prime numbers less than 20 \}$
- $C = \{integers from 1 to 10\}$
- (a) List the elements of A
- (b) List the elements of B
- (c) List the elements of C

1.3 Venns









What are the different groups in these Venn diagrams?





Your Turn Complete the Venn Diagram: 8 Wears glasses Boy Jess Anna May Jo Tom 60 30 Rob Pete $\xi = 3, 4, 5, 7, 10, 12,$ Multiple of 5 Odd ξ 13, 15, 20, 24, 25

Activity

Classmates in a Venn Diagram

Possible Categories: blonde hair, curly hair, straight hair, short hair, female, male, has a sister, has a brother, wears glasses, right-handed, left-handed, pet dog, pet cat, plays football, loves maths...





Odd





ξ =	34	14	15	28
	21	70	20	13
	1	25	7	16
	6	35	18	41

B)



What fraction of the numbers are not a multiple of 3 or 4?



1

Over 10





1.5 Review and Problem Solving

	Worked Example						Your Turn										
Rε ξ Α Β	Represent as a Venn diagram: $\xi = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$ $A = \{0, 1, 3, 5, 8\}$ $B = \{2, 5, 8, 9\}$							Represent as a Venn diagram: $\xi = \{2, 3, 4, 5, 7, 11, 13, 17, 19\}$ $A = \{2, 3, 5, 11, 13\}$ $B = \{5, 7, 13, 17, 19\}$									

Worked Exam	ple		Your Turn						
Represent as a Venn dia $\xi =$ Positive integers bet and 10 inclusive $A = \{Prime numbers\}$ $B = \{Even numbers\}$	agram: tween 1	Reg ξ = incl A = B =	Represent as a Venn diagram: ξ = Integers between 0 and 5 inclusive A = {Prime numbers} B = {Odd numbers}						

Worked Example	Your Turn							
<pre>ξ = {Days of the week} A = {Tuesday, Thursday} B = {Days starting with S or T} Draw a Venn diagram to represent this information.</pre>	<pre>ξ = {Months of the year} A = {Months starting with A} B = {Months with six letters} Draw a Venn diagram to represent this information.</pre>							



Template



2 Ordering Numbers

2.1 Reading Inequalities

Notice the symbol is taller on the side which is larger.



Inequality	What It Means
<i>x</i> > 7	"x is greater than 7" This doesn't include 7 Examples: 7.2, 10
$x \ge 7$	" <i>x</i> is greater than or equal to 7" or " <i>x</i> is at least 7" This does include 7 Examples: 7, 8, 100.5
<i>x</i> < 10	"x is less than 10" Examples: $-3, 4, 9.2$
<i>x</i> ≤ 8	"x is less than or equal to 8" or "x is at most 8" Examples: 8, -3 , 4, 7.2

Worked Example								Your Turn											
Write an inequality in between the two numbers:							ו	Write an inequality in between the two numbers:											
4	4 5								4.1 4.05										

Write an inequality or equality in between the two numbers:

1)	9	5	10)	$\frac{1}{4}$	0.26
2)	3	3.5	11)	$\frac{1}{4}$	$\frac{3}{8}$
3)	3.55	3.5	12)	0.1	0.1001
4)	3.09	3.091	13)	-3	- 4
5)	4.44	4.04	14)	-3.2	- 3.3
6)	0.5	$\frac{1}{2}$	15)	-11	- 10.9
7)	0.89	0.98	16)	0.33	$\frac{1}{2}$
8)	0 99	1 01			3

9) 3.101 3.099

True or False

Are the following inequalities true or false?

• 3 < 4

In words: "3 is less than 4". This is true: 3 is a smaller value than 4.

• -5 > 1

In words: "-5 is greater than 1". This is not true: -5 is not the larger value.

• 5 ≤ 5

In words: "5 is less than or equal to 5". This is true: the left can either be less than <u>or equal to</u> the right. 5 is equal to 5!

Decide if the following statements are true or false for the values given.

1) <i>n</i> = 7										
a) <i>n</i> > 8	b) <i>n</i> < 8	c) <i>n</i> ≥ 8	d) <i>n</i> < 3	e) <i>n</i> ≤ 7						
2) $n = 0.5$										
a) <i>n</i> > 0	b) <i>n</i> < 0.55	c) $n \ge 0.05$	d) <i>n</i> < -1	e) <i>n</i> ≤ 1						
3) $n = -3$										
a) <i>n</i> > -4	b) <i>n</i> < −2	c) $n \ge 0$	d) <i>n</i> < −3.5	e) <i>n</i> ≤ −2.9						
4) $n = \frac{1}{3}$										
a) $n > \frac{2}{6}$	b) $n < \frac{1}{4}$	c) $n \ge \frac{5}{12}$	d) $n < \frac{5}{12}$	e) $n \le \frac{1}{2}$						

2.2 Review and Problem Solving
Question 1: Write	out the following wi	th either an < or > sy	mbol
(a) 8 🗌 6	(b) 2 🗌 3	(c) 7 🗌 10	(d) 5 🗌 0
(e) 4 -1	(f) -4 6	(g) 9 9.4	(h) 0 🗌 -1
Question 2: Write	down an inequality	for each of the follow	ing
(a) x is greater than	n 8	(b) x is less than 3	
(c) x is less than or	equal to 1	(d) x is greater that	n or equal to 0
(e) x is less than 7		(f) x is greater that	n or equal to –2
(g) x is less than or	equal to –10	(h) x is greater than	n 5
Question 3: Write (a) $x > 6$ (e) $x \ge 0$ (i) $x < y$	down the meaning o (b) $x < 2$ (f) $x \le -4$ (j) $a \ge b$	of these inequalities (c) $x \ge 1$ (g) $x < -2$ (k) $c > 5$	 (d) x ≤ 4 (h) x > 20 (l) y ≤ 100



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Write the correct inequality symbol in each circle



3 Metric Units

The commonly used metric units of length include:

- kilometres (km)
- metres (m)
- centimetres (cm)
- millimetres (mm)

The commonly used metric units of mass include:

- gram (g)
- kilogram (kg)
- tonne (t)
- milligram (mg)

The commonly used metric units of capacity include:

- litre (l)
- millilitre (ml)
- cubic centimetre (cc)

https://www.youtube.com/watch?v=7bUVjJWA6Vw&t=1s&ab_cha nnel=TED-Ed

						Metr	ic L	Init	S		
Fill in the blanks with the appropriate metric units:	A box of corn flakes weighs 750, and is 35 tall.	A tin of baked beans weighs 415, and is 120, high.	Tower bridge in London is 0.244 long, and each tower is 61 high.	A pound coin has a diameter of 22.5 and weighs 9.5	A football pitch is normally 100 long, and the goalposts are 7.3 apart.	A dairy cow weighs 580, and is 147 tall at the shoulder. The average cow produces around 30 of milk a day, or 11 a year.	The iphone 5 weighs 112, and is 8 thick.	A sheet of A4 paper is 297 long, and weighs 5	The Lord of the Rings DVD box-set weighs 0.5, and has a volume of 2800	A single bed measures 91 wide and 1.9 long.	Choose from the common metric units:Remember:Length: millimetres, centimetres, metres, kilometres1 cubic centimetre (1 millilitre) of water weighs 1 gram.Mass: grams, kilograms, tonnes1 cubic metre (1000 litres) of water weighs 1 tonne.Most common liquids are mostly water, so will be very similar.

3.1 Conversions Unit of measurement Useful conversions Examples - what would usually be measured in these units? Distance Millimetres (mm) Centimetres (cm) Metres (m) Kilometres (km) Weight Grams (g) Kilograms (kg) Tonnes (T) Capacity Millilitres (ml) Litres (l)

	Worked Example							Your Turn											
Co a) b) c)	nve me ce mi	ert 3 etre ntir illim	8.54 es net netr	res es	ome	etre	s in	to:		Convert 5.3 kilometres into: a) metres b) centimetres c) millimetres									

Worked Example							Your Turn						
	Convert 5.3 metres into: a) kilometres b) centimetres c) millimetres												
	Ie Ie <tdie< td=""> <tdie< td=""></tdie<></tdie<>	Ie Conve (a) ki (b) ce (c) m a) ki (b) ce (c) m a) ki (b) ce (c) m a) ki (b) ce (c) m a) ki 	Ie Convert 5 a) kilome b) centim b) centim c) millim c) millim millim millim <tdmillim< td=""> <</tdmillim<>	Ie Your : Convert 5.3 met a) kilometres b) centimetres b) centimetres c) millimetres c) millimetres c) millimetres a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a a b a a a a a a a a a a a a a a a a a a a a a a a a a a a a a	Ie Your Tu : Convert 5.3 metres a) kilometres b) centimetres b) centimetres c) millimetres c) millimetres a a a a a a a a a b centimetres c) millimetres a a a <	Ie Your Turn : Convert 5.3 metres into a) kilometres b) centimetres c) millimetres : : <td:< td=""></td:<>	Ie Your Turn : Convert 5.3 metres into: a) kilometres b) centimetres c) millimetres : : <td:< td=""> : <td:< td=""></td:<></td:<>	Ie Your Turn : Convert 5.3 metres into: a) kilometres b) centimetres b) centimetres c) millimetres c) millimetres millimetres millimetres millimetres					

Worked Example							Your Turn										
Co a) b) c)	nvert 3.54 centimetres into: kilometres metres millimetres							Convert 5.3 centimetres into: a) kilometres b) metres c) millimetres									

Worked Example	Your Turn						
Convert 3.54 millimetres into: a) kilometres b) metres c) centimetres	Convert 5.3 millimetres into: a) kilometres b) metres c) centimetres						

Workout	Click	Fluency	Scan here
Overtian 1. Com	art the following long	the intercenting stress	(am)
(a) 4 m	(h) 9 m	(c) 12 m	(d) 59 m
(e) 750 m	(f) 105 m	(g) 2.5 m	(h) 8.2 m
(i) 1.53 m	(j) 0.6 m	(k) 0.38 m	(l) 0.03 m
Our other 2 Course			
Question 2: Conve	(b) 700 cm	(c) 900 cm	(d) 1400 cm
(e) 250 cm	(f) 740 cm	(g) 1000 cm	(h) 348 cm
(i) 80 cm	(j) 70 cm	(k) 53 cm	(l) 2 cm
Question 3: Conve	ert the following leng	ths into centimetres	(cm)
(a) 60 mm	(b) 30 mm	(c) 65 mm	(d) 87 mm
(e) 280 mm	(f) 812 mm	(g) 2030 mm	(h) 9000 mm
(i) 7 mm	(j) 4 mm	(k) 1.3 mm	(l) 0.6 mm
Question 4: Conve	ert the following leng	ths into millimetres	(mm)
(a) 2 cm	(b) 6 cm	(c) 4.5 cm	(d) 9.2 cm
(e) 13 cm	(f) 78 cm	(g) 124 cm	(h) 520 cm
(i) 0.5 cm	(j) 0.2 cm	(k) 0.8 cm	(l) 0.16 cm
Question 5: Conve	ert the following leng	ths into metres (m)	
(a) 4 km	(b) 9 km	(c) 13 km	(d) 28 km
(e) 125 km	(f) 300 km	(g) 7000 km	(h) 7200 km
m Corbett 7 km moths] Videos 349a, 1	Metric Units 349b, 349c on Cor	bettmaths
Question 6: Conve	rt the following length	ns into kilometres (kn	n)
(a) 6000 m	(b) 2000 m	(c) 5500 m	(d) 6400 m
(e) 800 m	(f) 600 m	(g) 450 m (h) 125 m
(i) 70 m	(j) 90 m	(k) 35 m	(l) 4 m
(m) 90000 m	(n) 40000 m	(o) 340000 m	(p) 90530 m
Question 7: Conve	rt the following length	15	
(a) 2 m into mm	(b) 8 m into	mm (c) 65	00 mm into m
(d) 9000 mm into n	n (e) 48000 cm	n into km (f) 92	50000 cm into km
(g) 780 mm into m	(h) 4km into	cm (i) 1kr	n into mm
(j) 25000000 mm i	nto km (k) 0.5 km in	to cm (l) 0.0	23km into mm

	Worked Example							Your Turn											
Co a) b) c)	nve gra mi to	ert 3.54 kilograms into: rams nilligrams onnes								Convert 5.3 kilograms into: a) grams b) milligrams c) tonnes									

Worked Example	Your Turn						
Convert 3.54 grams into: a) kilograms b) milligrams c) tonnes	Convert 5.3 grams into: a) kilograms b) milligrams c) tonnes						

Worked Example	Your Turn						
Convert 3.54 milligrams into: a) kilograms b) grams c) tonnes	Convert 5.3 milligrams into: a) kilograms b) grams c) tonnes						

Worked Example	Your Turn							
Convert 3.54 tonnes into: a) kilograms b) grams c) milligrams	Convert 5.3 tonnes into: a) kilograms b) grams c) milligrams							

	_		
Question 8: Conv	ert the following into	grams	
(a) 2 kg	(b) 7 kg	(c) 19 kg	(d) 20 kg
(e) 1.5 kg	(f) 2.4 kg	(g) 4.7 kg	(h) 0.5 kg
(i) 0.8 kg	(j) 0.16 kg	(k) 0.03 kg	(l) 0.008 kg
Question 9: Conv	ert the following into	kilograms	
(a) 7000 g	(b) 3000 g	(c) 12000 g	(d) 40000 g
(e) 3945 g	(f) 600 g	(g) 850 g	(h) 735 g
(i) 60 g	(j) 75 g	(k) 2 g	(l) 78.1 g
Question 10: Conv	ert the following into	kilograms	
(a) 5 tonnes	(b) 8 tonnes	(c) 15 tonnes	(d) 0.6 tonnes
(e) 1.6 tonnes	(f) 9.25 tonnes	(g) 0.3 tonnes	(h) 0.06 tonnes
			© CORBETTI

Worked Example	Your Turn					
Convert 3.54 litres into: a) millilitres b) centilitres c) cubic centimetres	Convert 5.3 litres into: a) millilitres b) centilitres c) cubic centimetres					

Worked Example	Your Turn					
Convert 3.54 centilitres into: a) millilitres b) litres c) cubic centimetres	Convert 5.3 centilitres into: a) millilitres b) litres c) cubic centimetres					

Worked Example	Your Turn					
Convert 3.54 millilitres into: a) litres b) centilitres c) cubic centimetres	Convert 5.3 millilitres into: a) litres b) centilitres c) cubic centimetres					

	١	No	rke	ed	Exa	am	ple	9		Your Turn								
Convert 3.54 cubic centimetres into: a) litres b) centilitres c) millilitres				Convert 5.3 cubic centimetres into: a) litres b) centilitres c) millilitres														







3.2 Review and Problem Solving

Question 1: Jack is 1.36 metres tall. His friend Ian is 5 centimetres taller than Jack. What height is Ian? Give your answer in metres.

Question 2: Mary runs 600m every day. Work out how far Mary runs in one week. Give your answer in kilometres.

Question 3: Karl is baking a loaf of bread and needs 0.8 kg of flour He has 72 grams of flour. How much more flour does Karl need? Give your answer in grams.

- Question 4: James and Jack buy a 3 litre carton of orange juice. Each boy drinks 650 ml of orange juice. How much orange juice is left? Give your answer in litres.
- Question 5: Rebecca has two dogs, Lucky and Pepe. Lucky weighs 5.4 kilograms. Pepe is 800 grams lighter than Lucky. Work out how much Pepe weighs. State your units.

Question 6: A 2p coin has a mass of 7 grams. Find the total mass of £80 worth of 2p coins. Give your answer in kilograms.

Answers

Apply



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4 Properties of 2D Shapes

4.1 2D Shapes

2-dimensional (2D) shapes have only two dimensions, length and width.

A polygon is a closed 2D shape with straight sides. Polygons are named depending on the number of sides.







Workout

Fluency Practice Scan here



- Question 4: Draw an isosceles triangle
- Question 5: Draw a scalene triangle
- Question 6: Draw an equilateral triangle

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Extension

Triangles. Draw up a table like this (big enough to contain *drawings*):

	scalene	isosceles	equilateral
acute-			
angled			
obtuse-			
angled			
right-			
angled			

For the top left square, if a triangle can be both scalene and acute-angled, draw an example. Put X if it's impossible, and try to say why. Complete the table.



Quadrilaterals

Name	Examples	Properties	Diagonals
Square			
Rectangle			
Parallelogram			
Trapezium			
Rhombus			
Kite			






Extension

What Quadrilateral am I?

The following quadrilaterals have not been drawn to scale, but each one has some markings that tell you something about it. If you used the information to construct the quadrilateral, but didn't include any additional features that have not been shown, what is the best name for the quadrilateral? Here are the choices:

quadrilateral, kite, trapezium, parallelogram, rhombus, rectangle, square Write the best name for the quadrilateral on each diagram.



4.4 Review and Problem Solving



Fluency Practice

Cut out the nine shape cards and arrange them into a 3×3 grid using the clues below:

- 1. The equilateral shapes are all in different columns.
- 2. Each shape in the middle row has two sets of parallel lines.
- 3. The shapes in the top two corners each have exactly one line of symmetry.
- 4. One of the rows contains a total of 10 sides.
- 5. The square is in a corner below the parallelogram.
- 6. The shape in the centre has all angles the same, but its diagonals do not intersect at right angles.
- 7. The shape with two pairs of equal adjacent sides is not in the same column as the square.
- 8. The shape with the most sides is in the bottom right hand corner.



Fluency Practice								
	6)	a hexagon with two lines of symmetry and two reflex angles	12)	a quadrilateral with diagonals that bisect each other	18)	an octagon with one line of symmetry (only)	24)	a dodecagon with only four lines of symmetry
sketch the shape	5)	a hexagon with just one line of symmetry and with five right angles	11)	four congruent (identical) kites surrounding a point	17)	an octagon with four lines of symmetry (only)	23)	a hexagon with only rotational symmetry, order 3
	4)	a trapezium made up of a square and an isosceles triangle	10)	a quadrilateral with just one line of symmetry which does not pass through any of the vertices (corners)	16)	a kite that is a trapezium	22)	a decagon with only two lines of symmetry
	3)	a parallelogram made up of two isosceles right angled triangles	9)	a hexagon made up of four isosceles right angled triangles	15)	a hexagon with one line of symmetry (only) and two right angles	21)	a heptagon with only one line of symmetry and four right angles
	2)	an isosceles triangle with one obtuse angle	8)	a pentagon with two sides parallel, one reflex angle and one line of symmetry	14)	an octagon with (exactly) five right angles	20)	a quadrilateral with two equal length diagonals and 1 reflex angle
	1)	a triangle with a right angle that is isosceles	7)	a quadrilateral with perpendicular diagonals and two pairs of equal sides	13)	an octagon with rotational symmetry, order 2 and with six right angles	19)	a hexagon with only rotational symmetry, order 2





