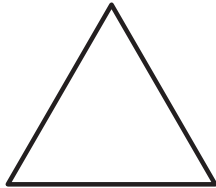


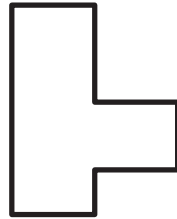
# Big Maths Beat That!: Teacher Notes

SAFE Challenge 11			
	Step Location in the SAFE framework		Title of Step
	Progress Drive	Step No.	
Q1	Shape: Explore & Draw	19	I use my knowledge of symmetry to recognise non-symmetrical shapes
Q2	Shape: 2D Shapes	18	I can identify regular and irregular polygons
Q3	Amounts: Amounts of Distance	12	I know my metre Learn It: 1m = 100cm
Q4	Amounts: Amounts of Distance	13	I know my millimetre Learn It: 1cm = 10mm
Q5	Amounts: Amounts of Mass	12	I know my mass Learn It: 1kg = 1000g
Q6	Amounts: Amounts of Space	12	I know my capacity Learn It: 1L = 1000ml
Q7	Amounts: Amounts of Turn	11	I can recognise acute angles
		12	I can recognise obtuse angles
Q8	Fractions: Fractions: Counting	8	I can record my tenths with decimals too
Q9	Explaining Data: Diagrams & Tables	18	I can use a variety of Venn Diagrams
Q10	Explaining Data: Bar Charts	5	I can explain a 1:2 scale bar chart

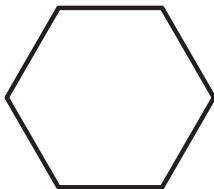
1 Tick the shape that is not symmetrical?

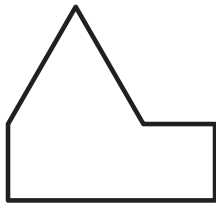


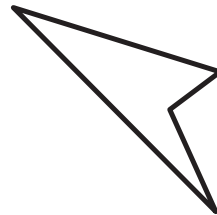





2 Tick the regular polygon?








3  $1\text{m} = \underline{\hspace{2cm}} \text{cm}$

$\frac{1}{4} \text{m} = \underline{\hspace{2cm}} \text{cm}$

4  $10\text{mm} = \underline{\hspace{2cm}} \text{cm}$

$40\text{mm} = \underline{\hspace{2cm}} \text{cm}$

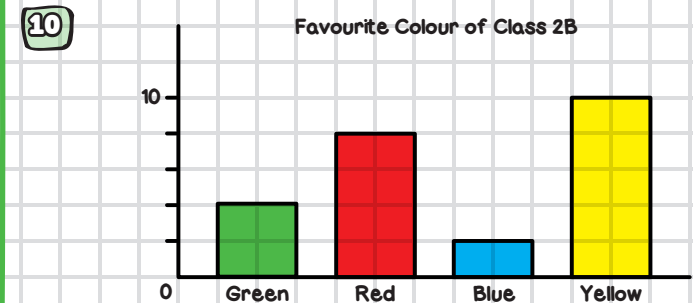
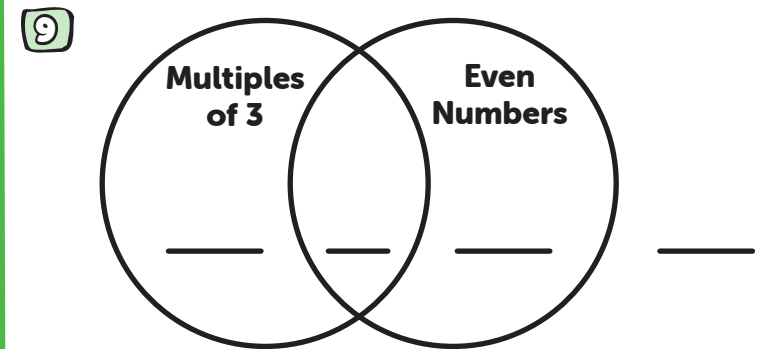
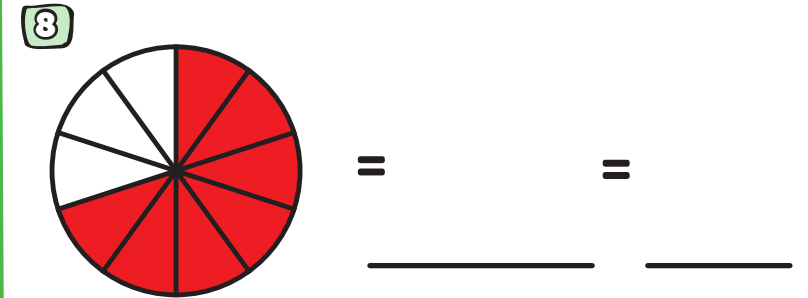
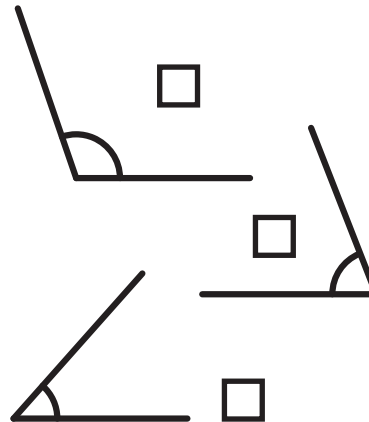
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

$\frac{1}{2} \text{kg} = \underline{\hspace{2cm}} \text{g}$

6  $1000\text{ml} = \underline{\hspace{2cm}} \text{L}$

$6000\text{ml} = \underline{\hspace{2cm}} \text{L}$

7 Tick the obtuse angle?



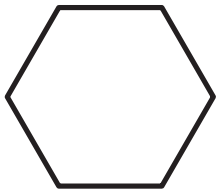
How many chose red?

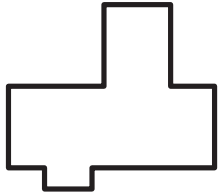
MY LAST SCORE?! .....

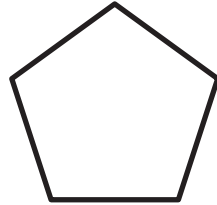
HAVE I BEAT THAT?! .....



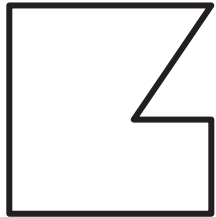
1 Tick the shape that is not symmetrical?

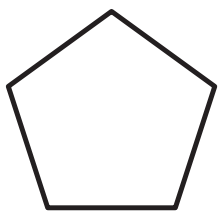


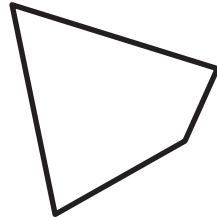





2 Tick the regular polygon?








3  $1\text{m} = \underline{\hspace{2cm}} \text{cm}$

$\frac{3}{4} \text{m} = \underline{\hspace{2cm}} \text{cm}$

4  $1\text{cm} = \underline{\hspace{2cm}} \text{mm}$

$\frac{1}{2} \text{cm} = \underline{\hspace{2cm}} \text{mm}$

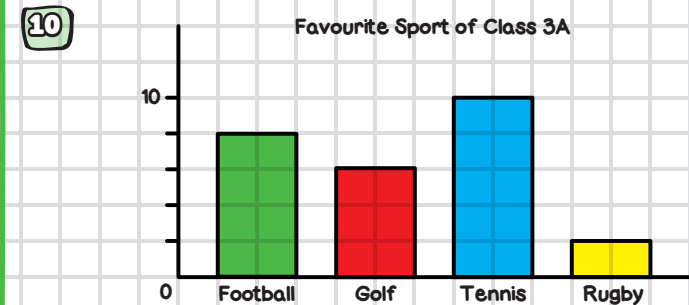
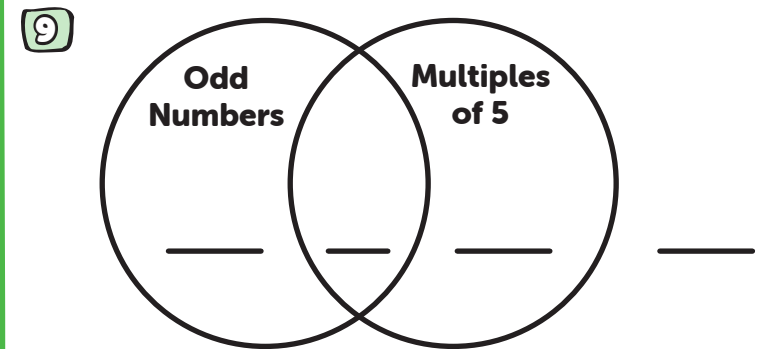
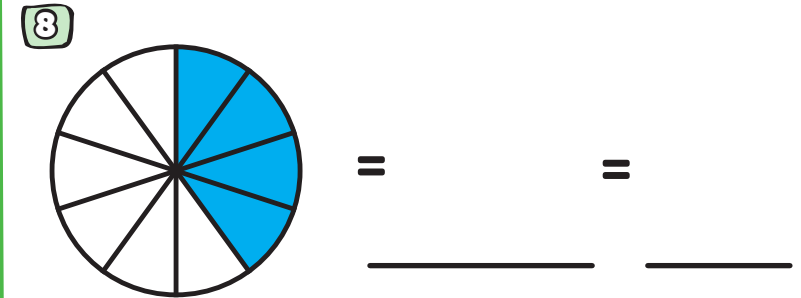
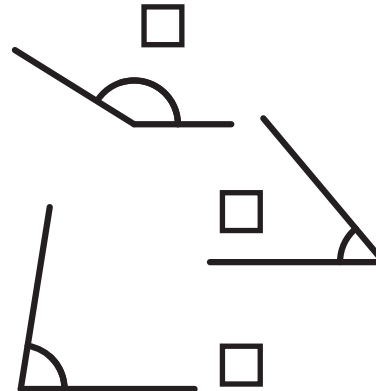
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

$\frac{1}{4} \text{kg} = \underline{\hspace{2cm}} \text{g}$

6  $1000\text{ml} = \underline{\hspace{2cm}} \text{L}$

$\frac{1}{2} \text{L} = \underline{\hspace{2cm}} \text{ml}$

7 Tick the obtuse angle?



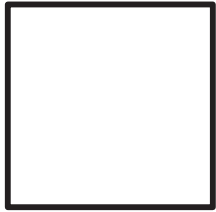
How many play golf?

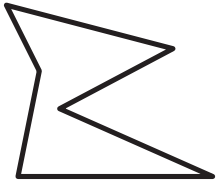
MY LAST SCORE?! .....

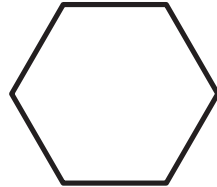
HAVE I BEAT THAT?! .....



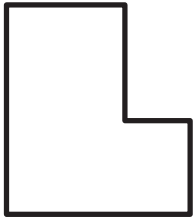
1 Tick the shape that is not symmetrical?

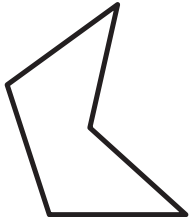


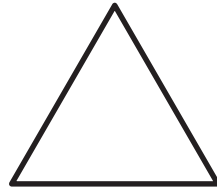





2 Tick the regular polygon?








3  $100\text{cm} = \underline{\quad} \text{m}$

$300\text{cm} = \underline{\quad} \text{m}$

4  $1\text{cm} = \underline{\quad} \text{mm}$

$30\text{mm} = \underline{\quad} \text{cm}$

5  $1\text{kg} = \underline{\quad} \text{g}$

$3000\text{g} = \underline{\quad} \text{kg}$

6  $1000\text{ml} = \underline{\quad} \text{L}$

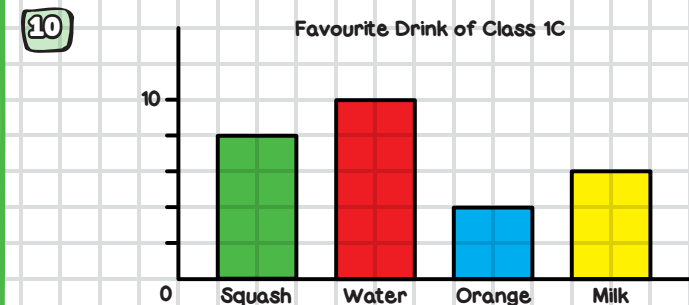
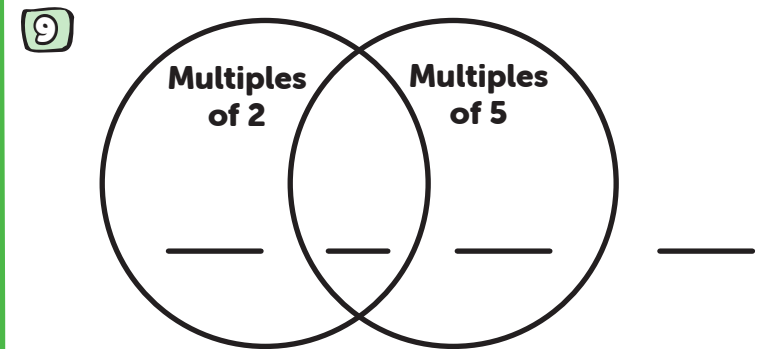
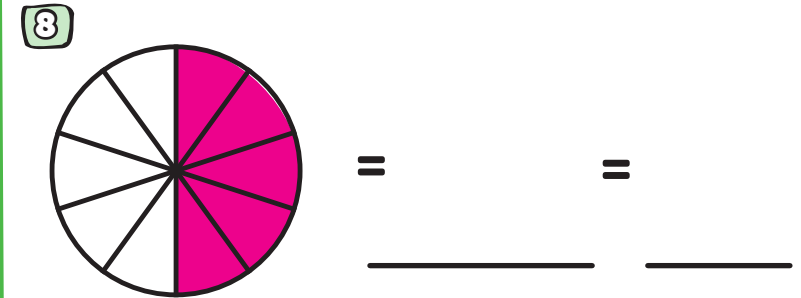
$\frac{3}{4} \text{L} = \underline{\quad} \text{ml}$

7 Tick the obtuse angle?









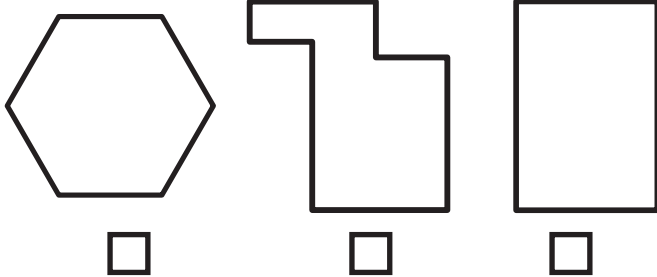
How many drink milk?

MY LAST SCORE?! .....

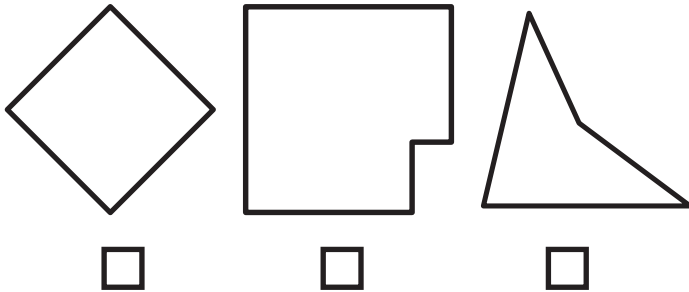
HAVE I BEAT THAT?! .....



1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $100\text{cm} = \underline{\hspace{2cm}} \text{m}$

$\frac{1}{2} \text{m} = \underline{\hspace{2cm}} \text{cm}$

4  $1\text{cm} = \underline{\hspace{2cm}} \text{mm}$

$50\text{mm} = \underline{\hspace{2cm}} \text{cm}$

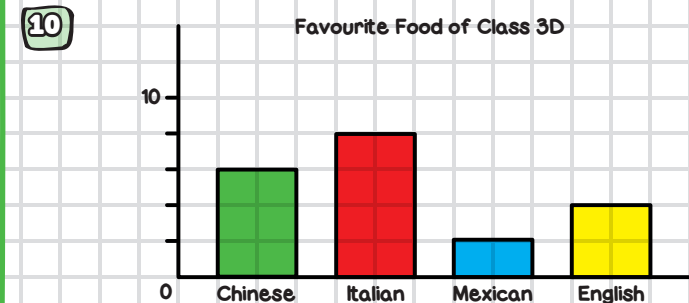
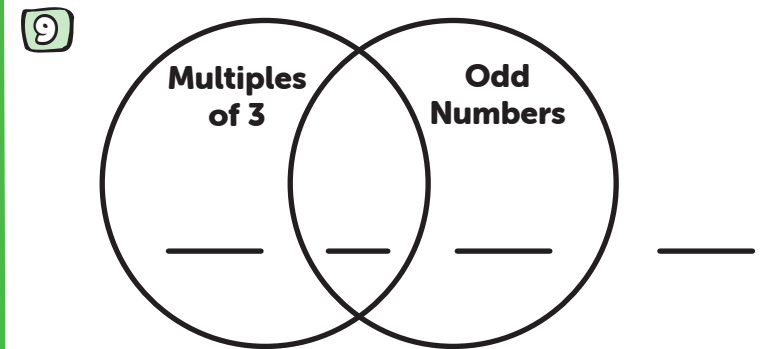
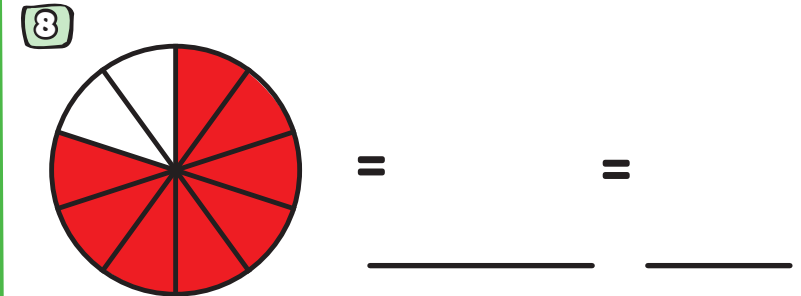
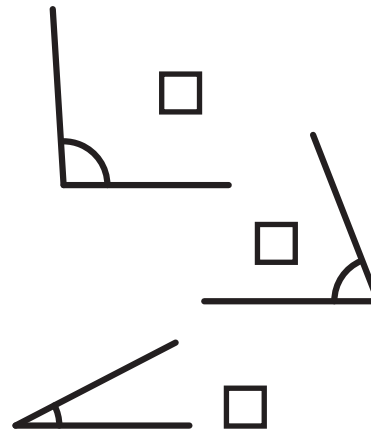
5  $1000\text{g} = \underline{\hspace{2cm}} \text{kg}$

$4\text{kg} = \underline{\hspace{2cm}} \text{g}$

6  $1000\text{ml} = \underline{\hspace{2cm}} \text{L}$

$5000\text{ml} = \underline{\hspace{2cm}} \text{L}$

7 Tick the obtuse angle?



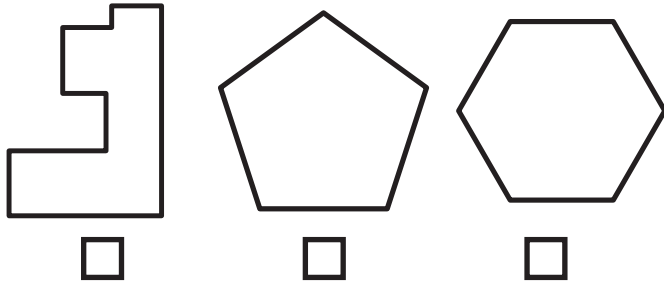
How many like Italian?



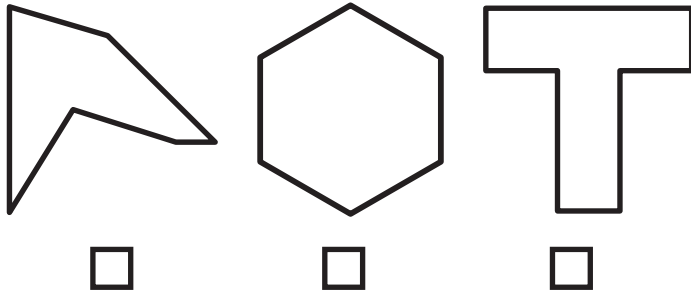
MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $100\text{cm} = \underline{\quad} \text{m}$

$\frac{3}{4} \text{m} = \underline{\quad} \text{cm}$

4  $1\text{cm} = \underline{\quad} \text{mm}$

$20\text{mm} = \underline{\quad} \text{cm}$

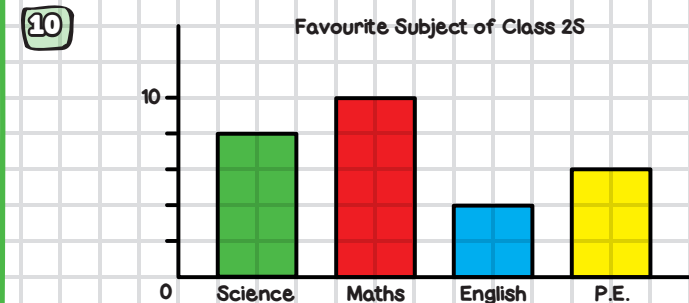
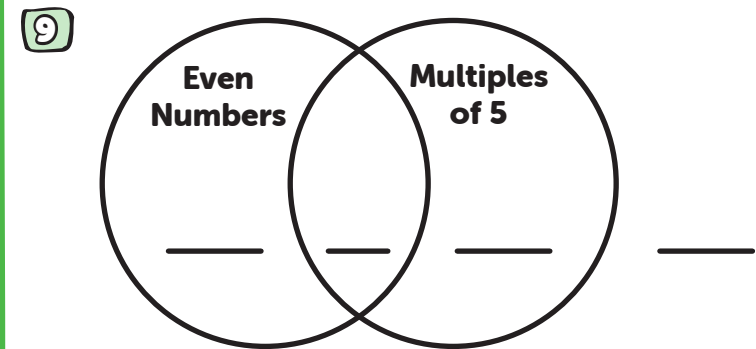
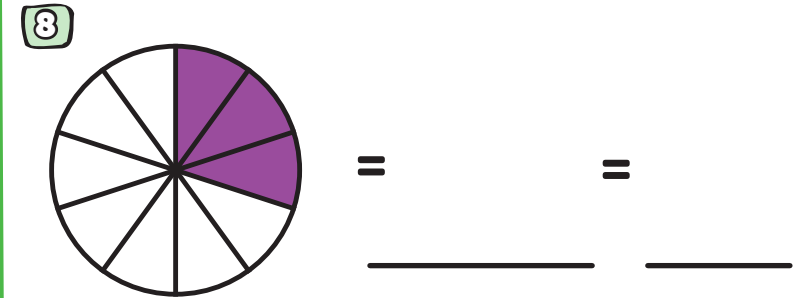
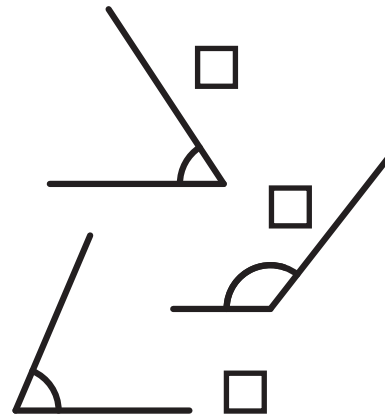
5  $1\text{kg} = \underline{\quad} \text{g}$

$\frac{3}{4} \text{kg} = \underline{\quad} \text{g}$

6  $1000\text{ml} = \underline{\quad} \text{L}$

$2000\text{ml} = \underline{\quad} \text{L}$

7 Tick the obtuse angle?



How many like maths?

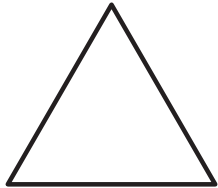
MY LAST SCORE?! .....

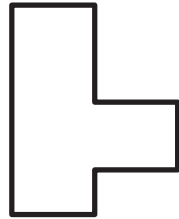
HAVE I BEAT THAT?! .....



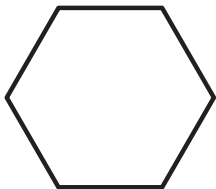
1 Tick the shape that is not symmetrical?

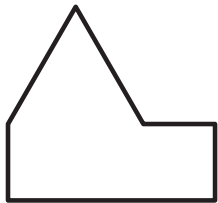


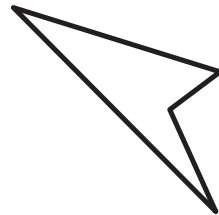





2 Tick the regular polygon?








3  $1\text{m} = \underline{\hspace{2cm}} \text{cm}$

$3\text{m} = \underline{\hspace{2cm}} \text{cm}$

4  $10\text{mm} = \underline{\hspace{2cm}} \text{cm}$

$70\text{mm} = \underline{\hspace{2cm}} \text{cm}$

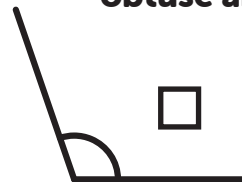
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

$\frac{1}{2} \text{kg} = \underline{\hspace{2cm}} \text{g}$

6  $1000\text{ml} = \underline{\hspace{2cm}} \text{L}$

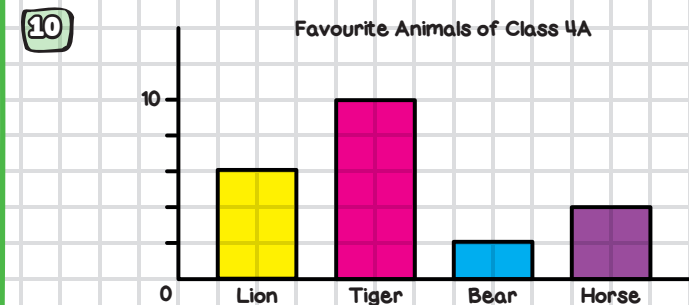
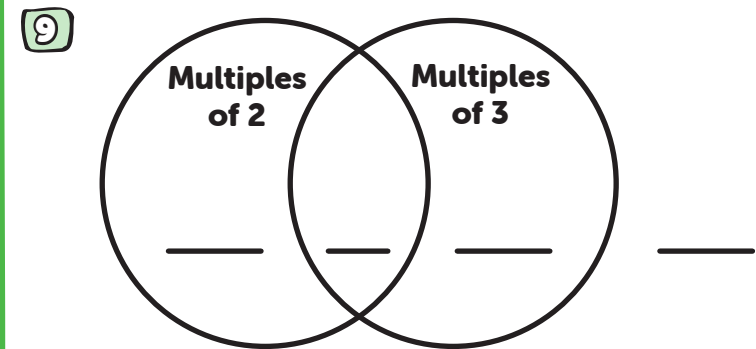
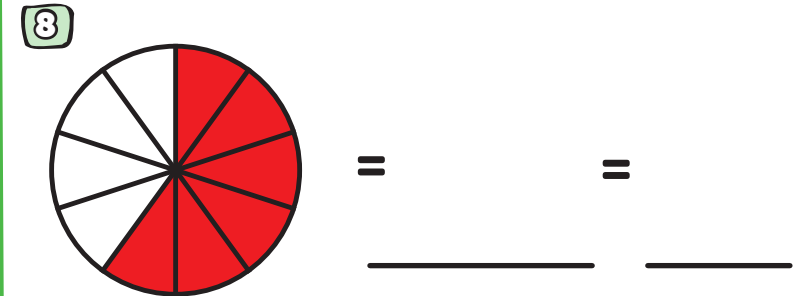
$\frac{1}{4} \text{L} = \underline{\hspace{2cm}} \text{ml}$

7 Tick the obtuse angle?









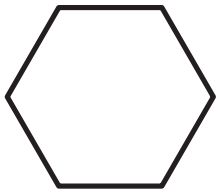
How many like lions?

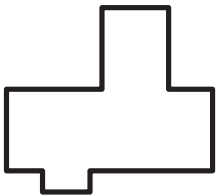
MY LAST SCORE?! .....

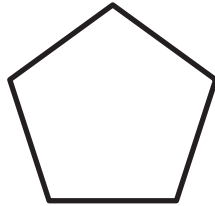
HAVE I BEAT THAT?! .....



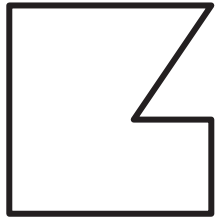
1 Tick the shape that is not symmetrical?

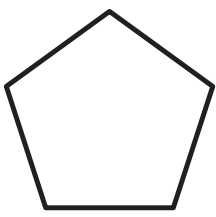


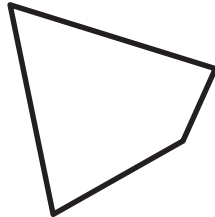





2 Tick the regular polygon?








3  $1\text{m} = \underline{\hspace{2cm}} \text{cm}$

$200\text{cm} = \underline{\hspace{2cm}} \text{m}$

4  $1\text{cm} = \underline{\hspace{2cm}} \text{mm}$

$40\text{mm} = \underline{\hspace{2cm}} \text{cm}$

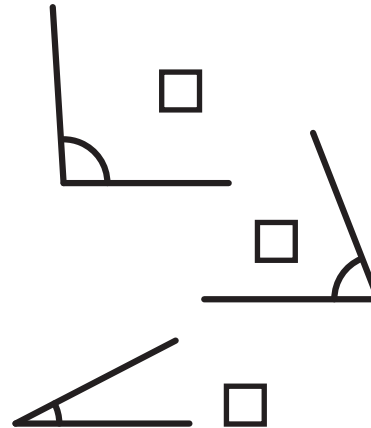
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

$\frac{3}{4}\text{kg} = \underline{\hspace{2cm}} \text{g}$

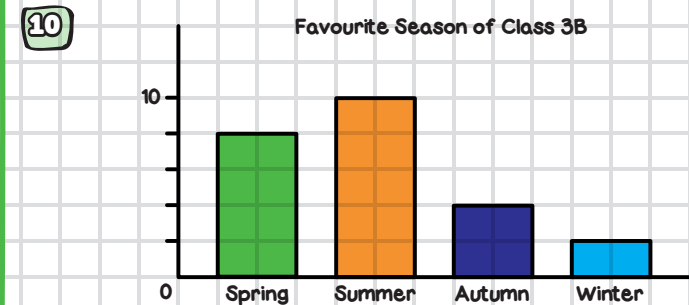
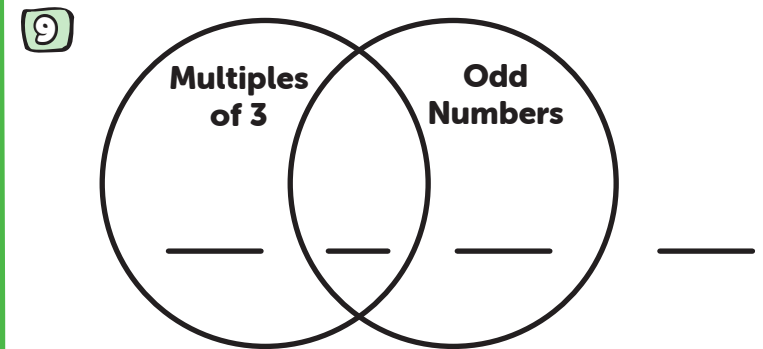
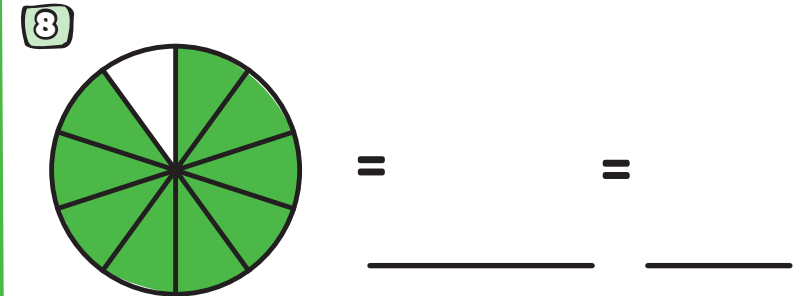
6  $1\text{L} = \underline{\hspace{2cm}} \text{ml}$

$4\text{L} = \underline{\hspace{2cm}} \text{ml}$

7 Tick the obtuse angle?







How many like Spring?

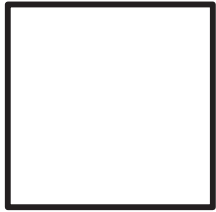
MY LAST SCORE?! .....

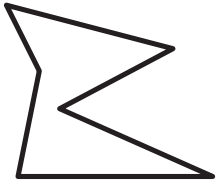
HAVE I BEAT THAT?! .....

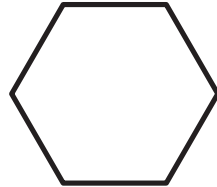




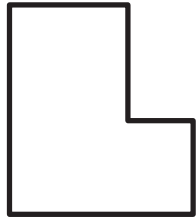
1 Tick the shape that is not symmetrical?

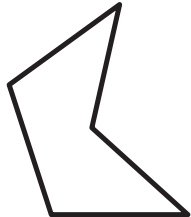


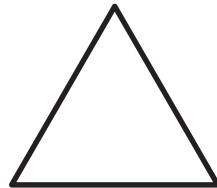





2 Tick the regular polygon?








3  $1\text{m} = \underline{\hspace{2cm}} \text{cm}$

$\frac{1}{4} \text{kg} = \underline{\hspace{2cm}} \text{g}$

4  $1\text{cm} = \underline{\hspace{2cm}} \text{mm}$

$60\text{mm} = \underline{\hspace{2cm}} \text{cm}$

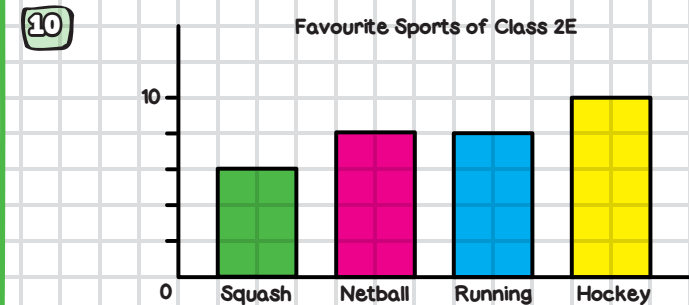
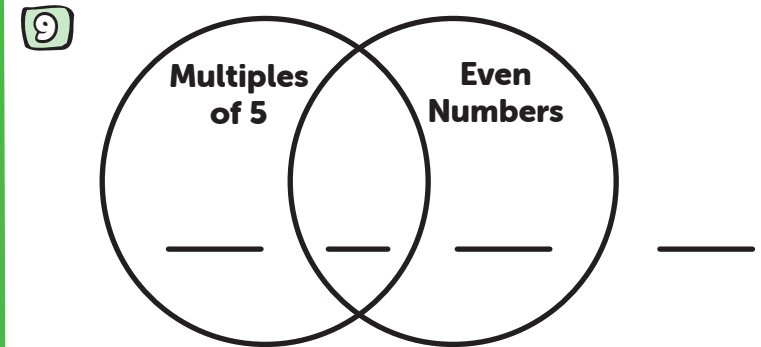
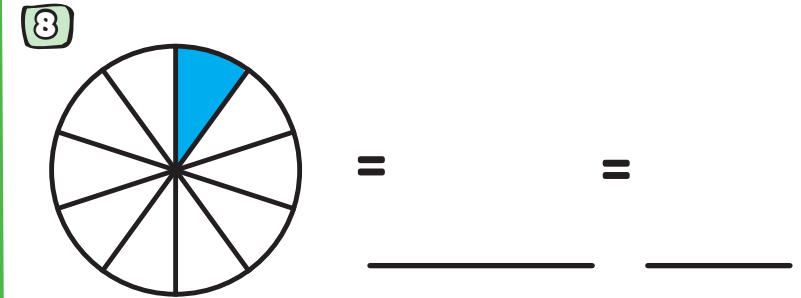
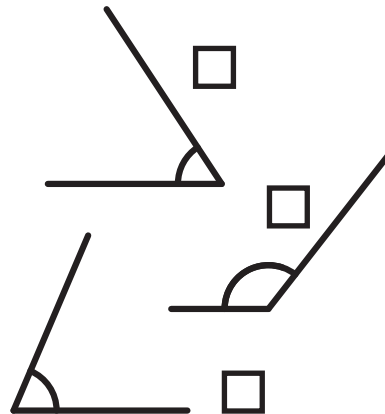
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

$5\text{kg} = \underline{\hspace{2cm}} \text{g}$

6  $1000\text{ml} = \underline{\hspace{2cm}} \text{L}$

$4\text{L} = \underline{\hspace{2cm}} \text{ml}$

7 Tick the obtuse angle?



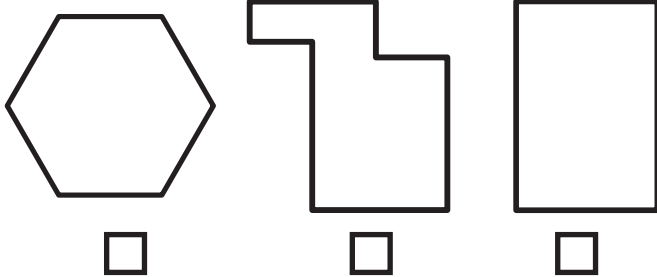
How many like squash?

MY LAST SCORE?! .....

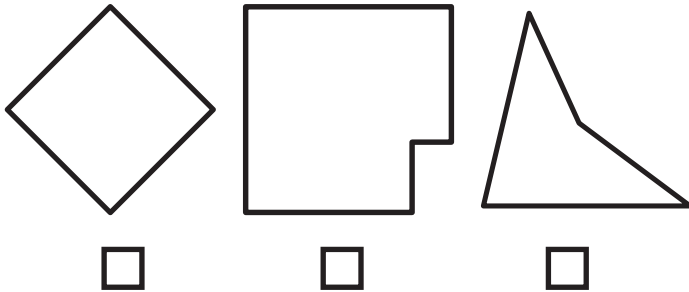
HAVE I BEAT THAT?! .....



1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $100\text{cm} = \underline{\hspace{2cm}} \text{m}$

$\frac{3}{4} \text{kg} = \underline{\hspace{2cm}} \text{g}$

4  $10\text{mm} = \underline{\hspace{2cm}} \text{cm}$

$\frac{1}{2} \text{cm} = \underline{\hspace{2cm}} \text{mm}$

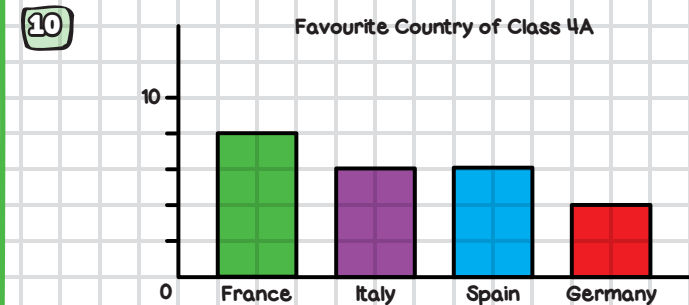
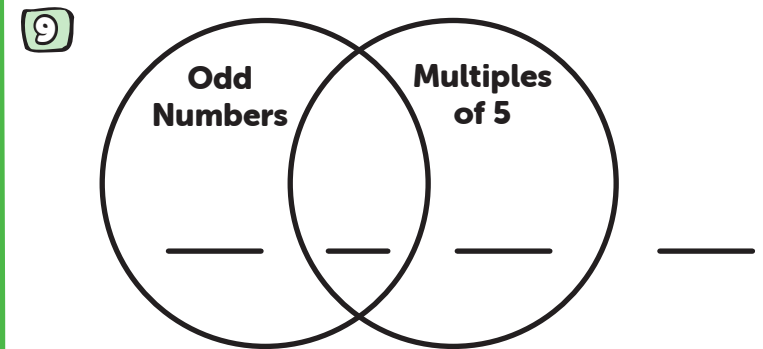
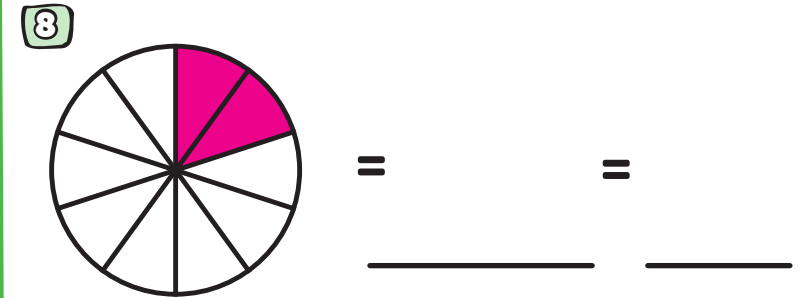
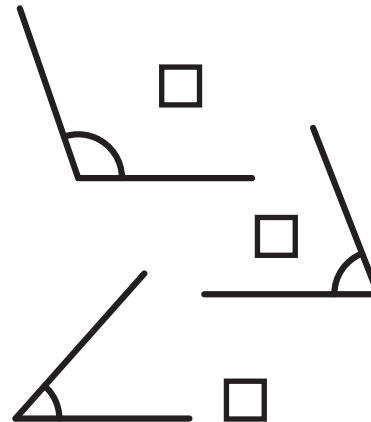
5  $1000\text{g} = \underline{\hspace{2cm}} \text{kg}$

$3\text{kg} = \underline{\hspace{2cm}} \text{g}$

6  $1\text{L} = \underline{\hspace{2cm}} \text{ml}$

$6000\text{ml} = \underline{\hspace{2cm}} \text{L}$

7 Tick the obtuse angle?



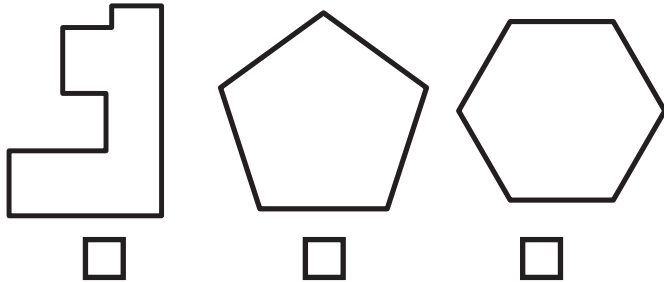
How many like Germany?



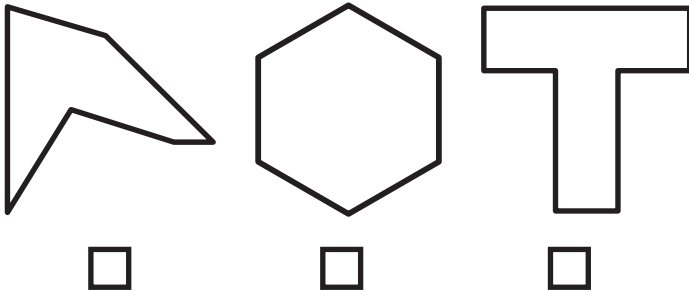
MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $1\text{m} = \underline{\hspace{2cm}} \text{cm}$

$700\text{cm} = \underline{\hspace{2cm}} \text{m}$

4  $1\text{cm} = \underline{\hspace{2cm}} \text{mm}$

$90\text{mm} = \underline{\hspace{2cm}} \text{cm}$

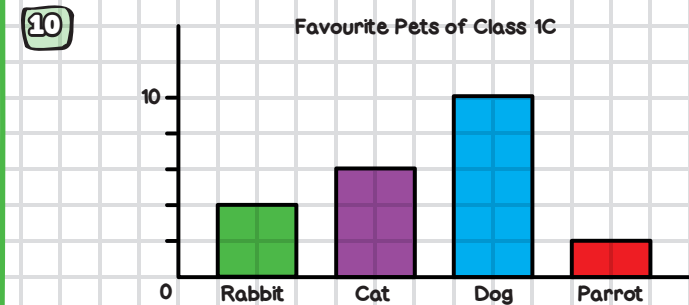
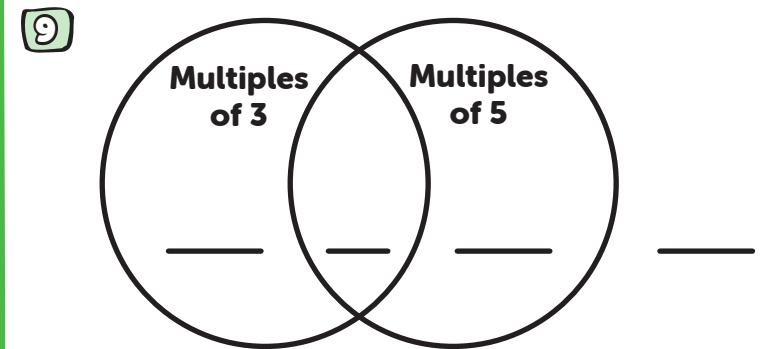
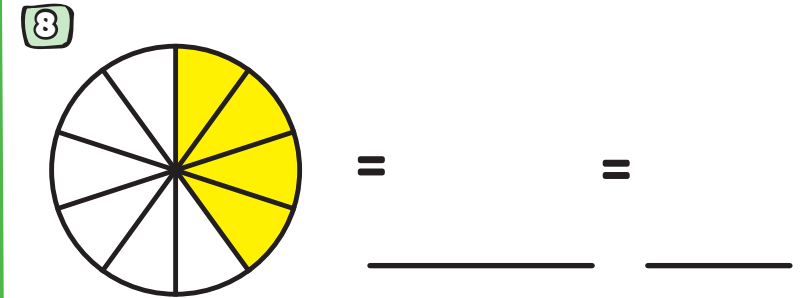
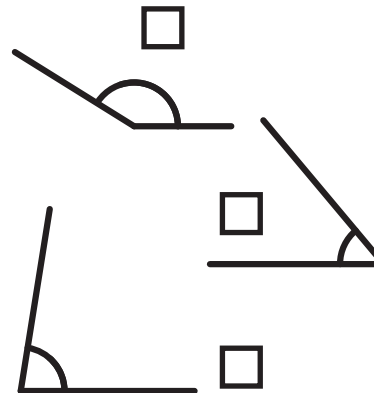
5  $1000\text{g} = \underline{\hspace{2cm}} \text{kg}$

$4\text{kg} = \underline{\hspace{2cm}} \text{g}$

6  $1\text{L} = \underline{\hspace{2cm}} \text{ml}$

$3000\text{ml} = \underline{\hspace{2cm}} \text{L}$

7 Tick the obtuse angle?



How many like cats?

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



# ANSWERS

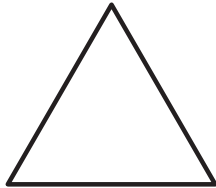
SAFE 11

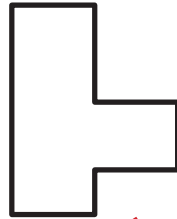
SET: 1

/10

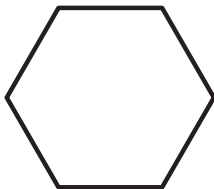
1 Tick the shape that is not symmetrical?

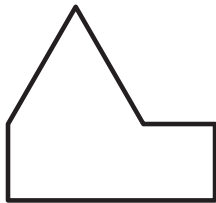


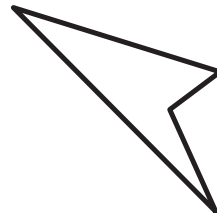





2 Tick the regular polygon?








3  $1\text{m} = \underline{100} \text{ cm}$

$\frac{1}{4} \text{ m} = \underline{25} \text{ cm}$

4  $10\text{mm} = \underline{1} \text{ cm}$

$40\text{mm} = \underline{4} \text{ cm}$

5  $1\text{kg} = \underline{1000} \text{ g}$

$\frac{1}{2} \text{ kg} = \underline{500} \text{ g}$

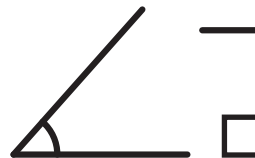
6  $1000\text{ml} = \underline{1} \text{ L}$

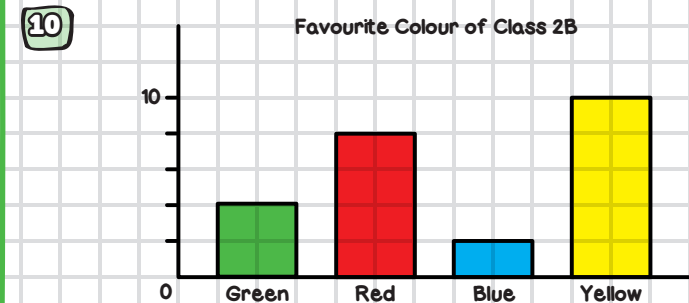
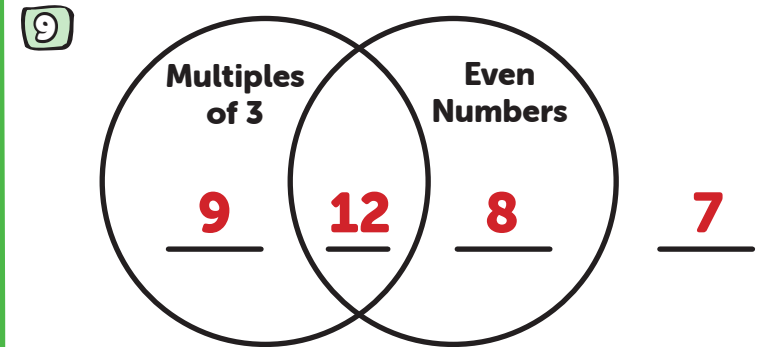
$6000\text{ml} = \underline{6} \text{ L}$

7 Tick the obtuse angle?









How many chose red? **8**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



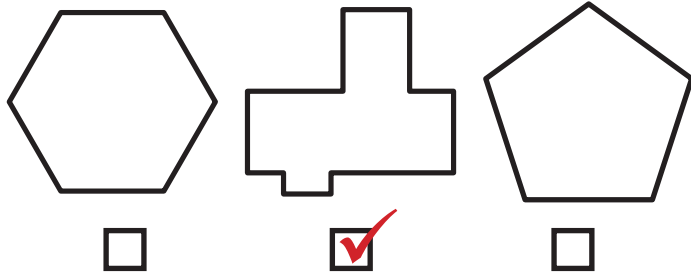
# ANSWERS

SAFE 11

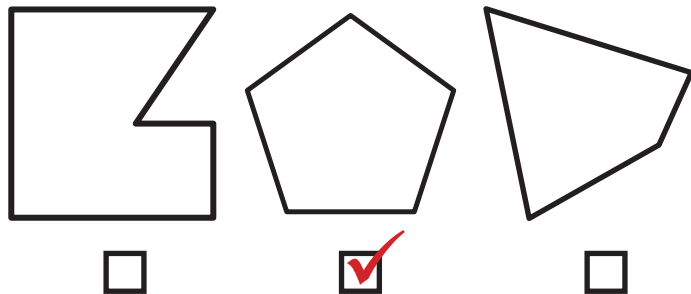
SET: 2

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $1\text{m} = \underline{100}\text{ cm}$

$\frac{3}{4}\text{ m} = \underline{75}\text{ cm}$

4  $1\text{cm} = \underline{10}\text{ mm}$

$\frac{1}{2}\text{ cm} = \underline{5}\text{ mm}$

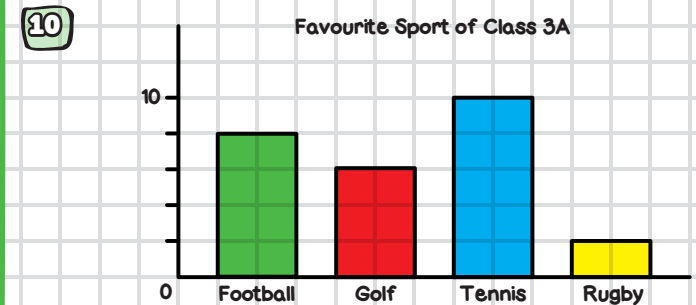
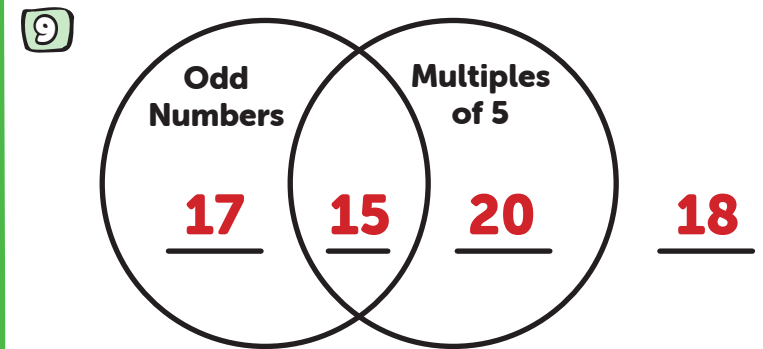
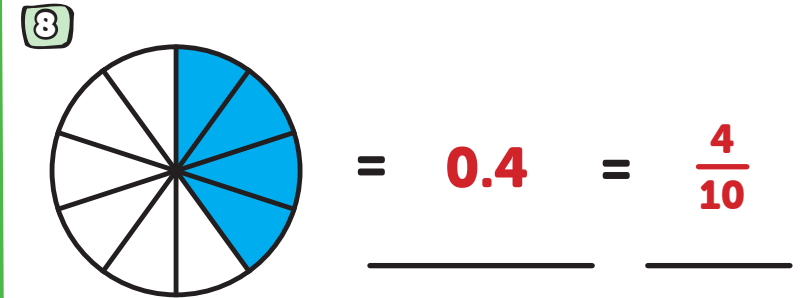
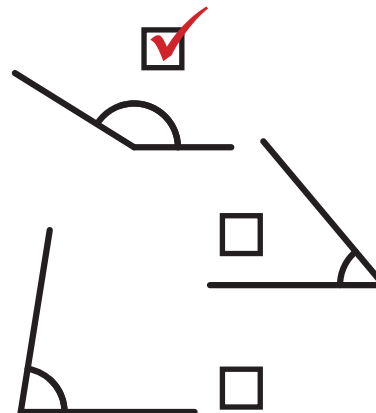
5  $1\text{kg} = \underline{1000}\text{ g}$

$\frac{1}{4}\text{ kg} = \underline{250}\text{ g}$

6  $1000\text{ml} = \underline{1}\text{ L}$

$\frac{1}{2}\text{ L} = \underline{500}\text{ ml}$

7 Tick the obtuse angle?



How many play golf? **6**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



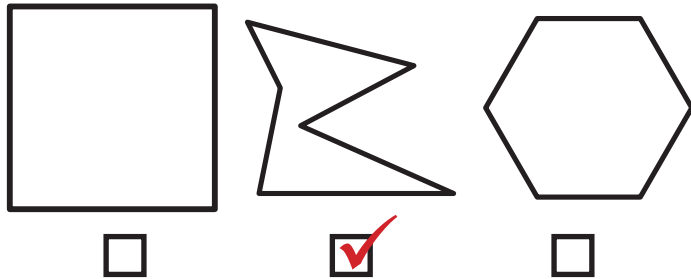
# ANSWERS

SAFE 11

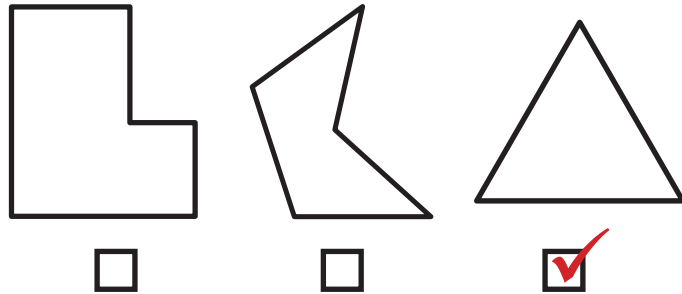
SET: 3

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $100\text{cm} = \underline{1} \text{ m}$

4  $1\text{cm} = \underline{10} \text{ mm}$

$300\text{cm} = \underline{3} \text{ m}$

$30\text{mm} = \underline{3} \text{ cm}$

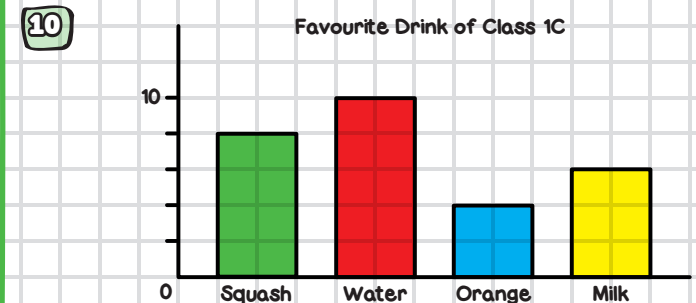
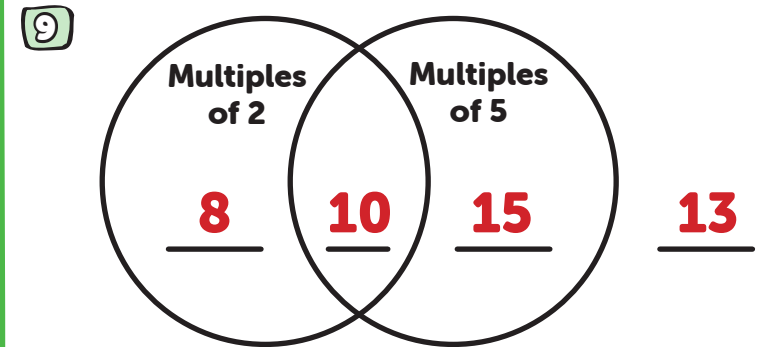
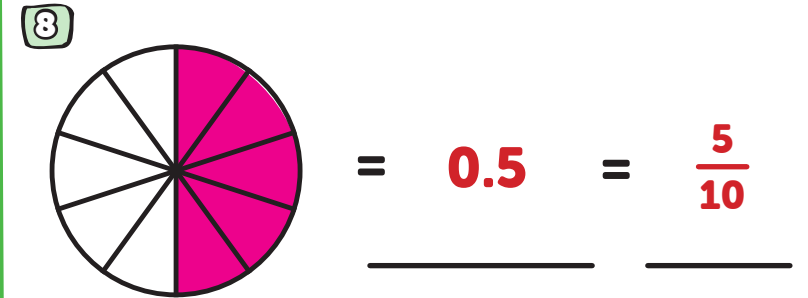
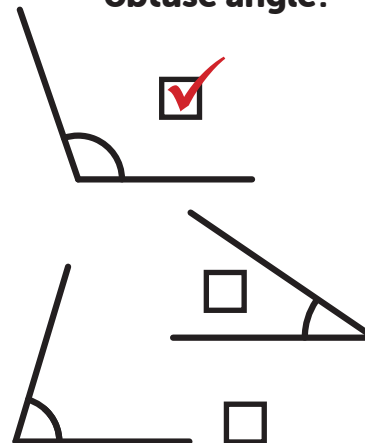
5  $1\text{kg} = \underline{1000} \text{ g}$

$3000\text{g} = \underline{3} \text{ kg}$

6  $1000\text{ml} = \underline{1} \text{ L}$

$\frac{3}{4} \text{ L} = \underline{750} \text{ ml}$

7 Tick the obtuse angle?



How many drink milk? **6**



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



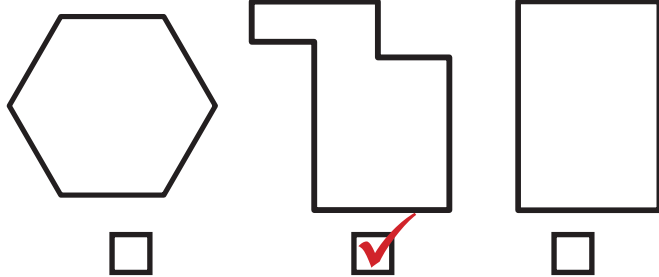
# ANSWERS

SAFE 11

SET: 4

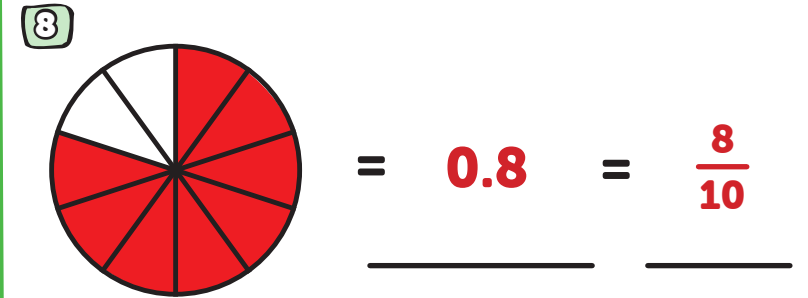
/10

1 Tick the shape that is not symmetrical?

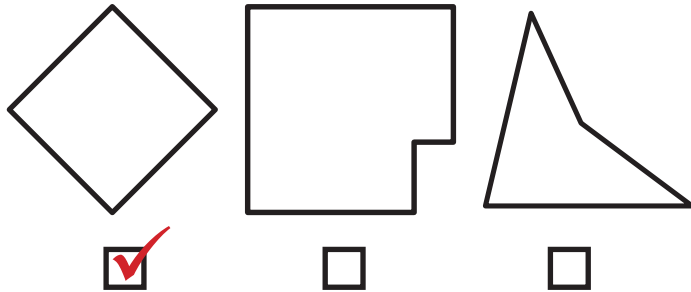


5  $1000\text{g} = \underline{1} \text{ kg}$

$4\text{kg} = \underline{4000} \text{ g}$

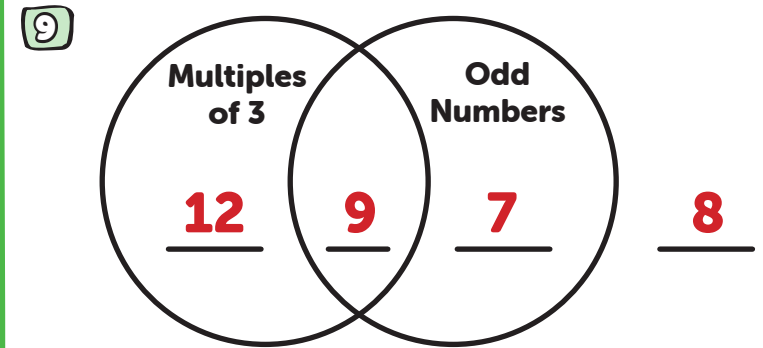


2 Tick the regular polygon?



6  $1000\text{ml} = \underline{1} \text{ L}$

$5000\text{ml} = \underline{5} \text{ L}$



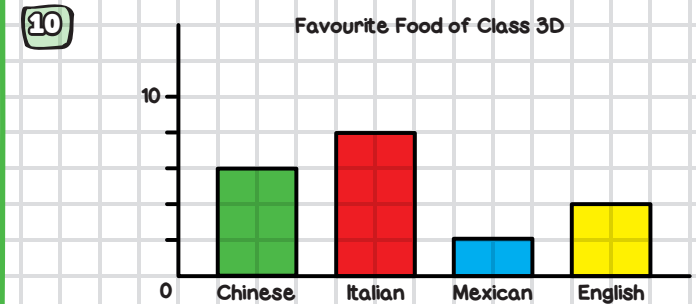
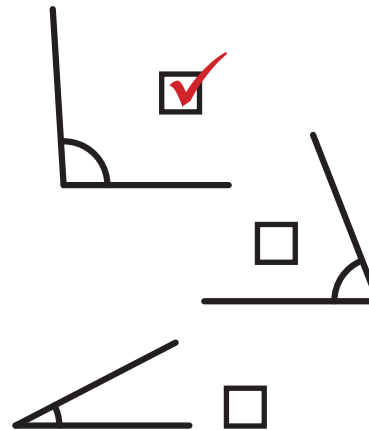
3  $100\text{cm} = \underline{1} \text{ m}$

$\frac{1}{2} \text{ m} = \underline{50} \text{ cm}$

4  $1\text{cm} = \underline{10} \text{ mm}$

$50\text{mm} = \underline{5} \text{ cm}$

7 Tick the obtuse angle?



How many like Italian? **8**



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



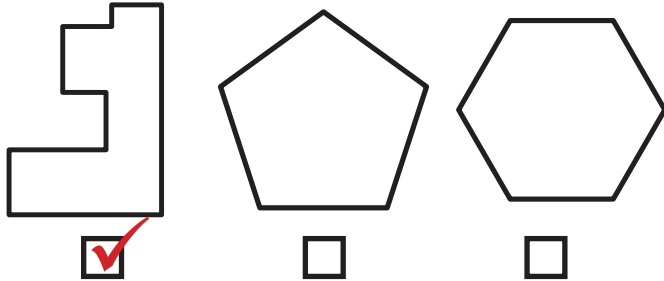
# ANSWERS

SAFE 11

SET: 5

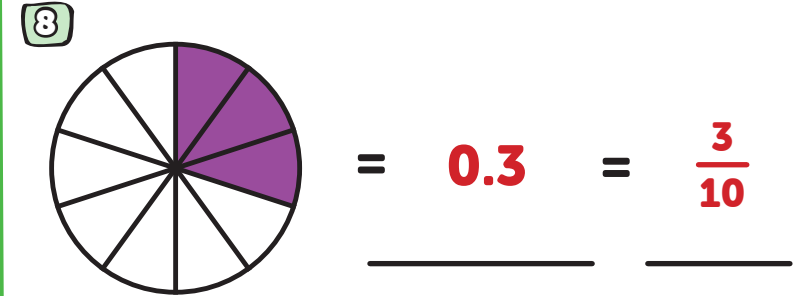
/10

1 Tick the shape that is not symmetrical?

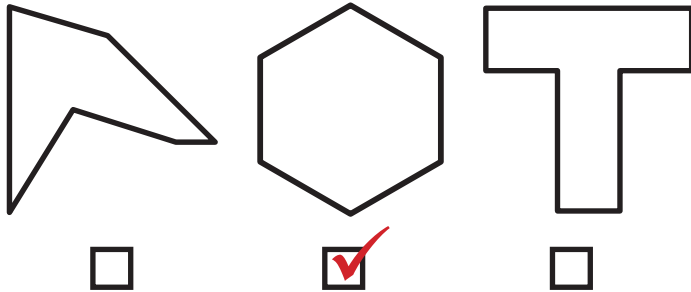


5  $1\text{kg} = \underline{1000} \text{ g}$

$\frac{3}{4} \text{kg} = \underline{750} \text{ g}$

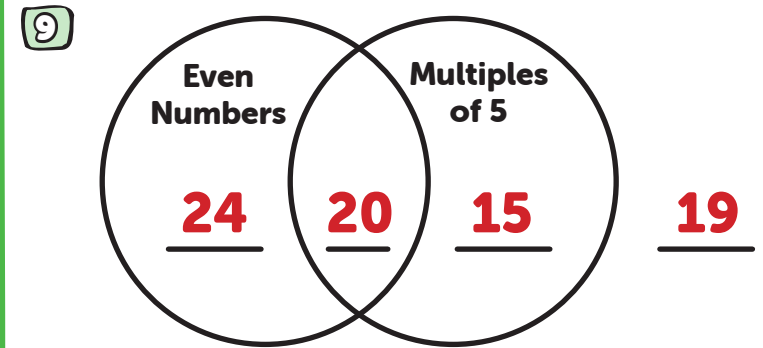


2 Tick the regular polygon?



6  $1000\text{ml} = \underline{1} \text{ L}$

$2000\text{ml} = \underline{2} \text{ L}$



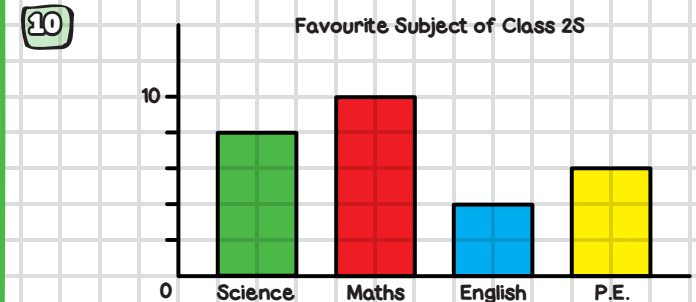
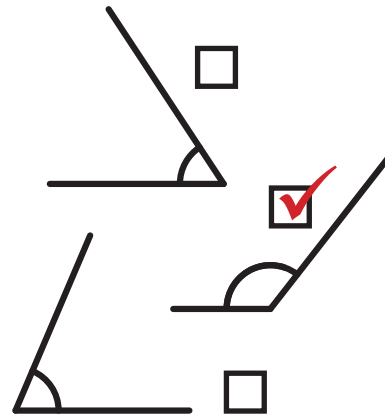
3  $100\text{cm} = \underline{1} \text{ m}$

$\frac{3}{4} \text{m} = \underline{75} \text{ cm}$

4  $1\text{cm} = \underline{10} \text{ mm}$

$20\text{mm} = \underline{2} \text{ cm}$

7 Tick the obtuse angle?



How many like maths? **10**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....





# ANSWERS

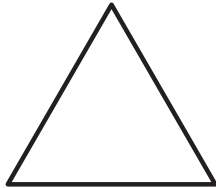
SAFE 11

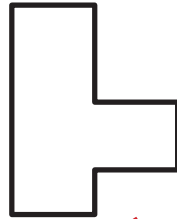
SET: 6

/10

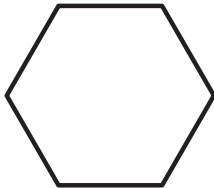
1 Tick the shape that is not symmetrical?

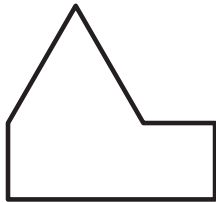


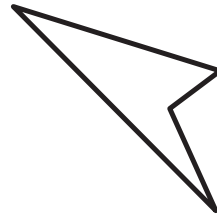





2 Tick the regular polygon?








3  $1\text{m} = \underline{100} \text{ cm}$

$3\text{m} = \underline{300} \text{ cm}$

4  $10\text{mm} = \underline{1} \text{ cm}$

$70\text{mm} = \underline{7} \text{ cm}$

5  $1\text{kg} = \underline{1000} \text{ g}$

$\frac{1}{2} \text{kg} = \underline{500} \text{ g}$

6  $1000\text{ml} = \underline{1} \text{ L}$

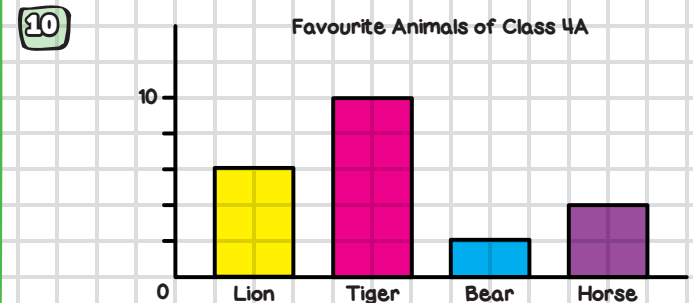
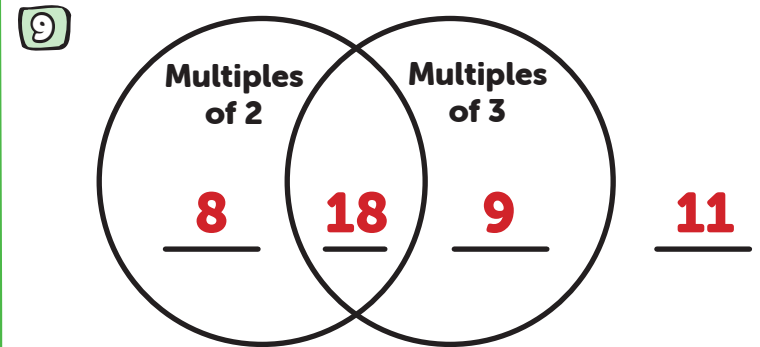
$\frac{1}{4} \text{L} = \underline{250} \text{ ml}$

7 Tick the obtuse angle?









How many like lions? **6**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



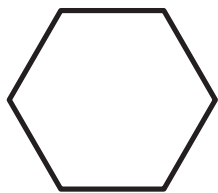
# ANSWERS

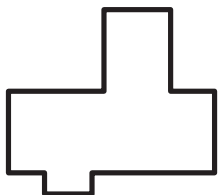
SAFE 11

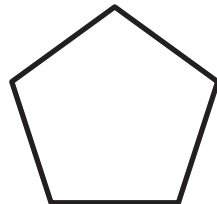
SET: 7

/10

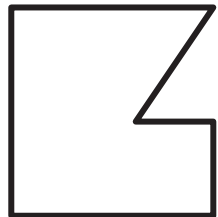
1 Tick the shape that is not symmetrical?

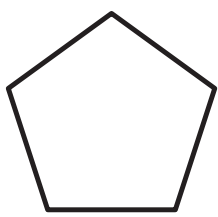


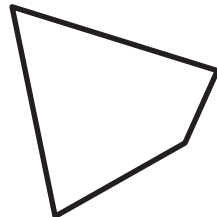





2 Tick the regular polygon?








3  $1\text{m} = \underline{100} \text{ cm}$

$200\text{cm} = \underline{2} \text{ m}$

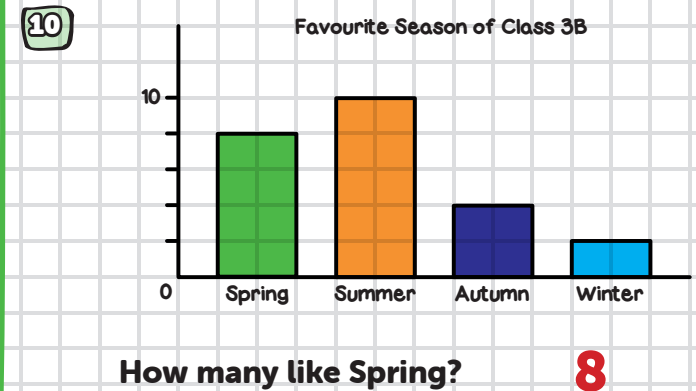
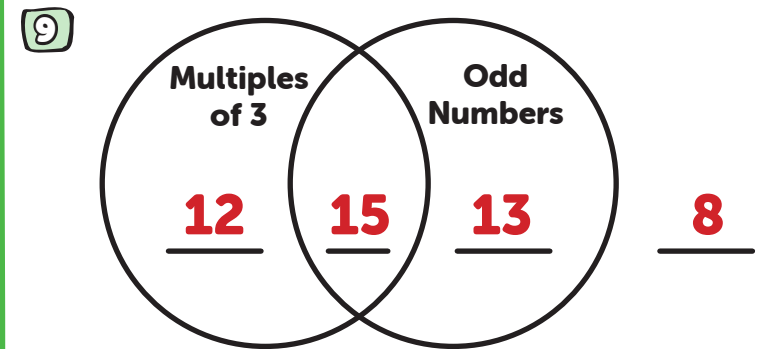
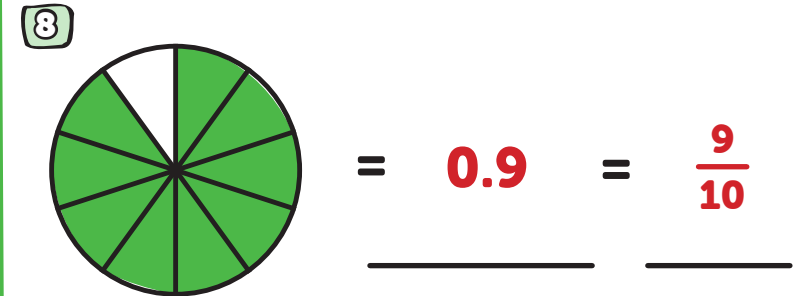
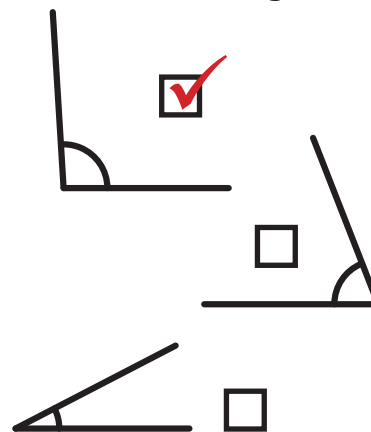
4  $1\text{cm} = \underline{10} \text{ mm}$

$40\text{mm} = \underline{4} \text{ cm}$

5  $1\text{kg} = \underline{1000} \text{ g}$   
 $\frac{3}{4} \text{kg} = \underline{750} \text{ g}$

6  $1\text{L} = \underline{1000} \text{ ml}$   
 $4\text{L} = \underline{4000} \text{ ml}$

7 Tick the obtuse angle?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



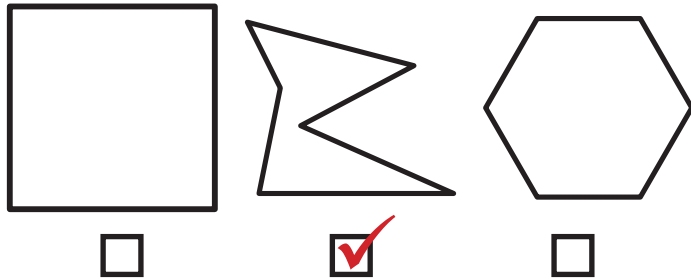
# ANSWERS

SAFE 11

SET: 8

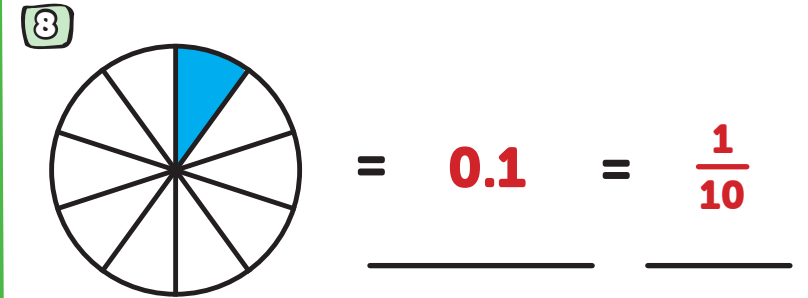
/10

1 Tick the shape that is not symmetrical?

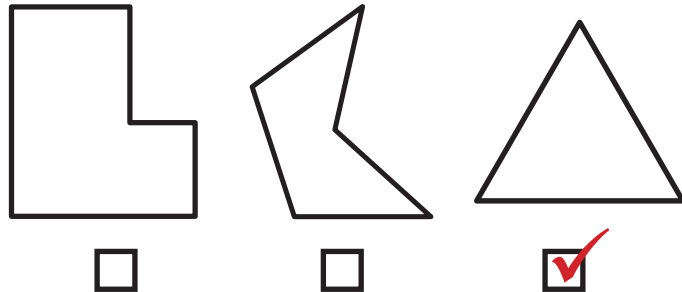


5 1kg = 1000 g

5kg = 5000 g

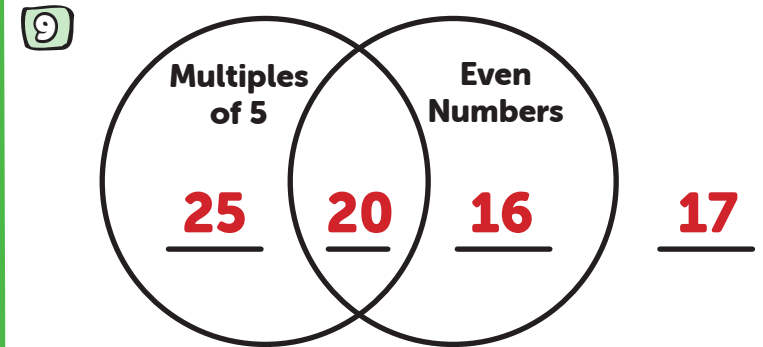


2 Tick the regular polygon?



6 1000ml = 1 L

4L = 4000 ml



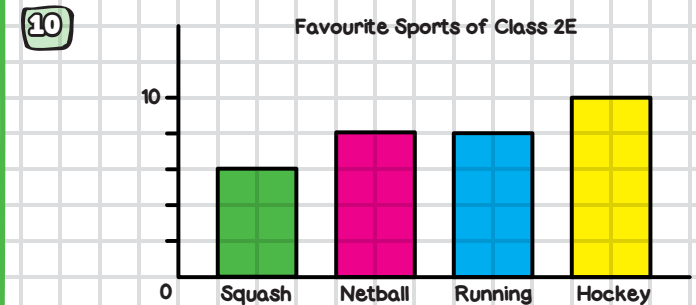
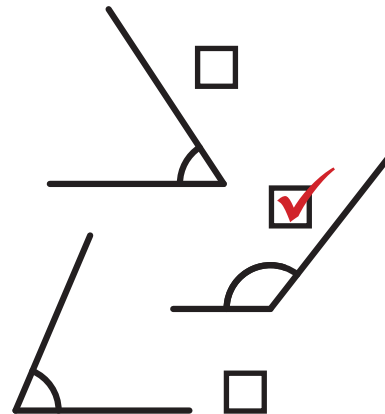
3 1m = 100 cm

$\frac{1}{4}$  kg = 250 g

4 1cm = 10 mm

60mm = 6 cm

7 Tick the obtuse angle?



How many like squash? **6**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



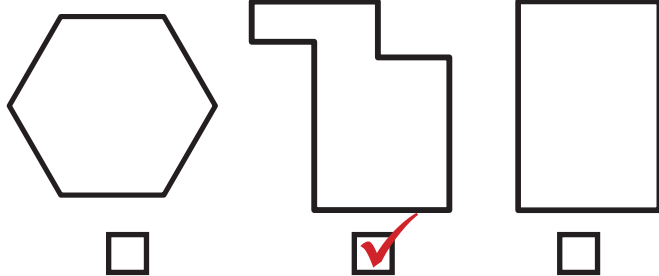
# ANSWERS

SAFE 11

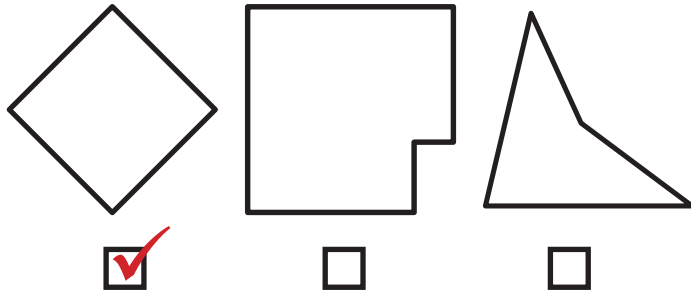
SET: 9

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $100\text{cm} = \underline{1} \text{ m}$

$\frac{3}{4} \text{ kg} = \underline{750} \text{ g}$

4  $10\text{mm} = \underline{1} \text{ cm}$

$\frac{1}{2} \text{ cm} = \underline{5} \text{ mm}$

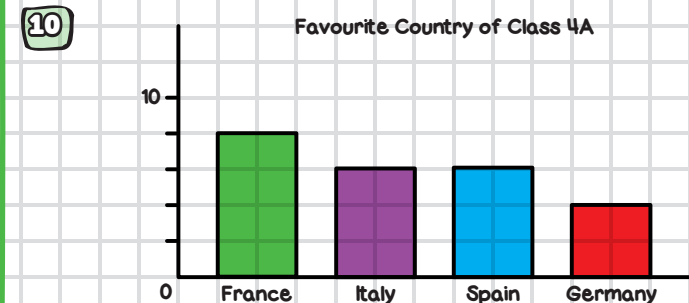
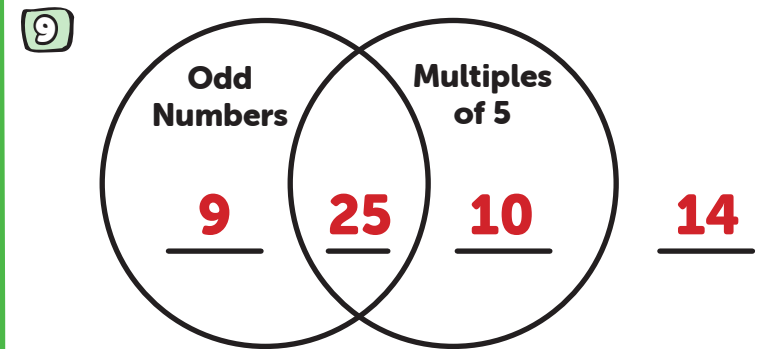
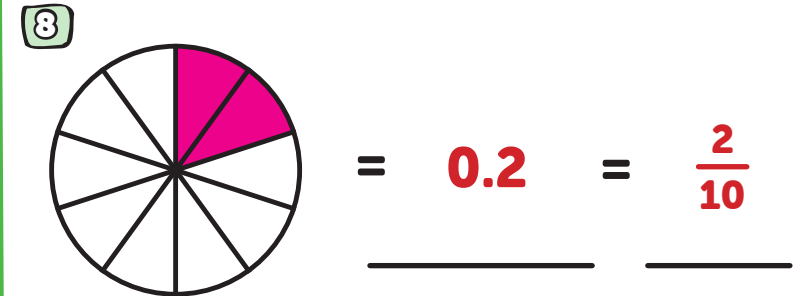
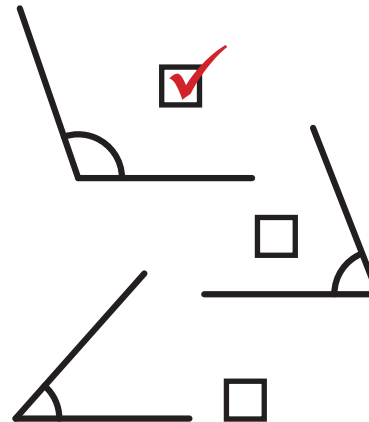
5  $1000\text{g} = \underline{1} \text{ kg}$

$3\text{kg} = \underline{3000} \text{ g}$

6  $1\text{L} = \underline{1000} \text{ ml}$

$6000\text{ml} = \underline{6} \text{ L}$

7 Tick the obtuse angle?



How many like Germany? **4**



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



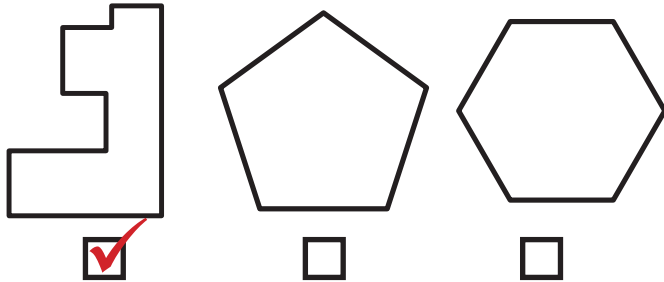
# ANSWERS

SAFE 11

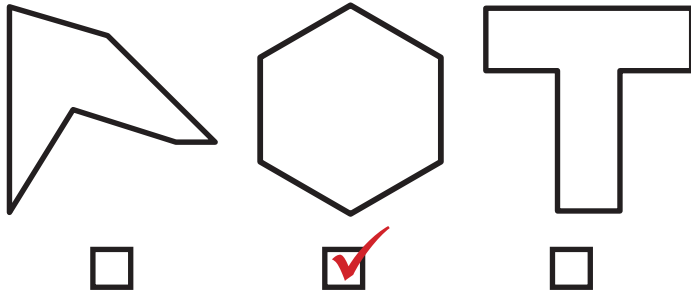
SET: 10

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3  $1\text{m} = \underline{100} \text{ cm}$

$700\text{cm} = \underline{7} \text{ m}$

4  $1\text{cm} = \underline{10} \text{ mm}$

$90\text{mm} = \underline{9} \text{ cm}$

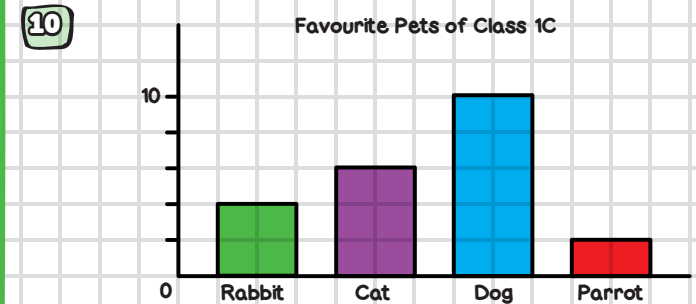
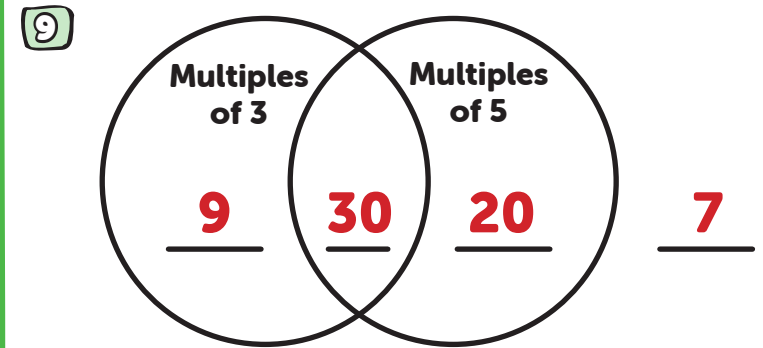
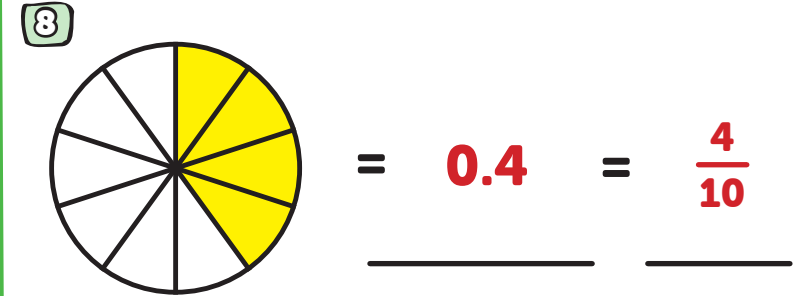
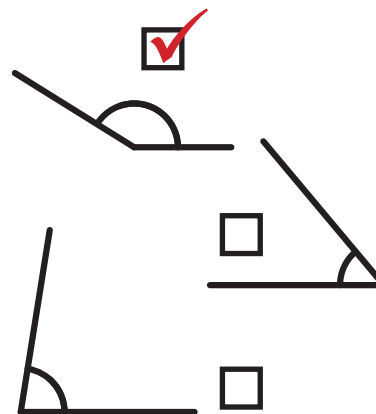
5  $1000\text{g} = \underline{1} \text{ kg}$

$4\text{kg} = \underline{4000} \text{ g}$

6  $1\text{L} = \underline{1000} \text{ ml}$

$3000\text{ml} = \underline{3} \text{ L}$

7 Tick the obtuse angle?



How many like cats? **6**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

