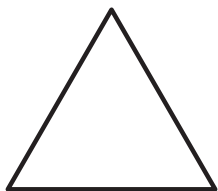
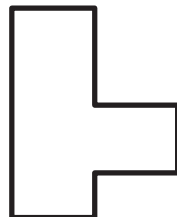


# Big Maths Beat That!: Teacher Notes

| 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                                |

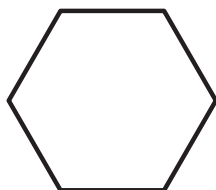
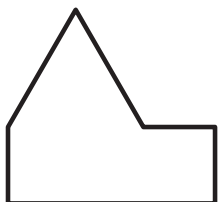
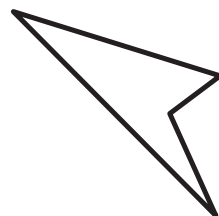
1

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

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

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

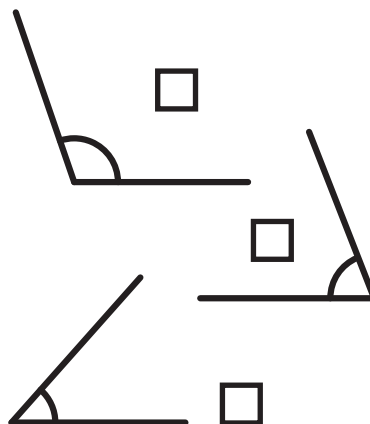
6

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

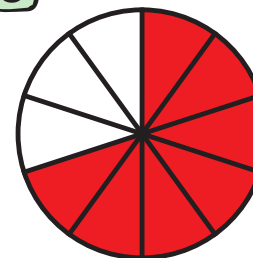
$$6000\text{ml} = \underline{\hspace{2cm}} \text{L}$$

7

Tick the obtuse angle?

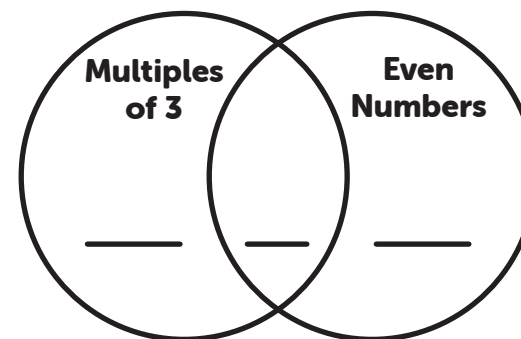


8



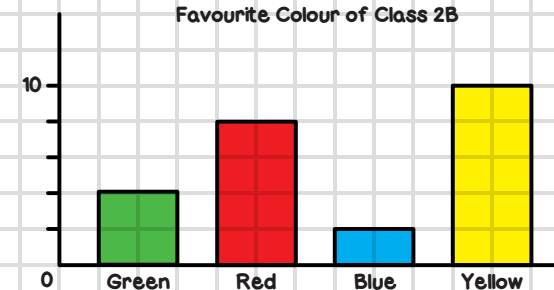
$$= \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

9



10

Favourite Colour of Class 2B



How many chose red?

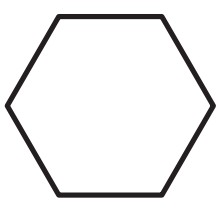
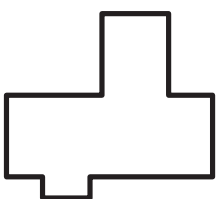
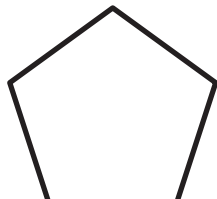


MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

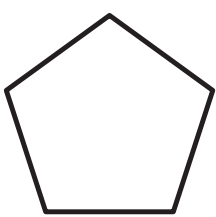
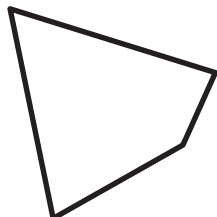
1

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

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

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

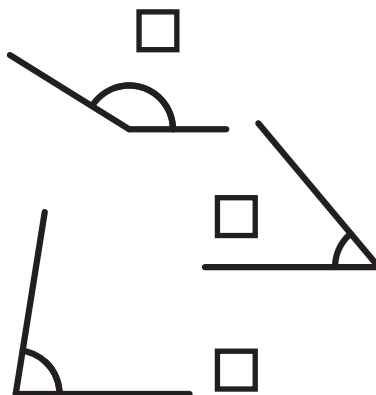
6

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

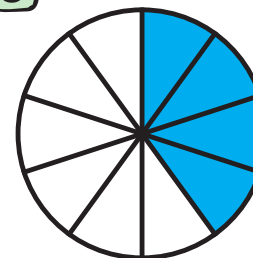
$$\frac{1}{2} \text{L} = \underline{\hspace{2cm}} \text{ml}$$

7

Tick the obtuse angle?


☐
☐
☐

8



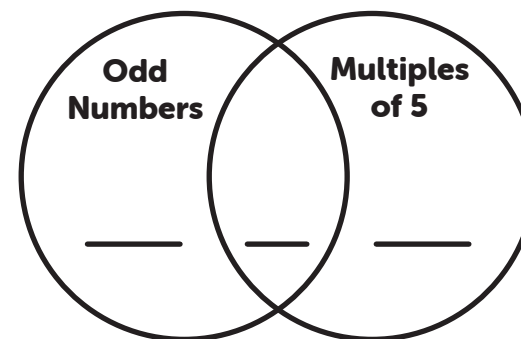
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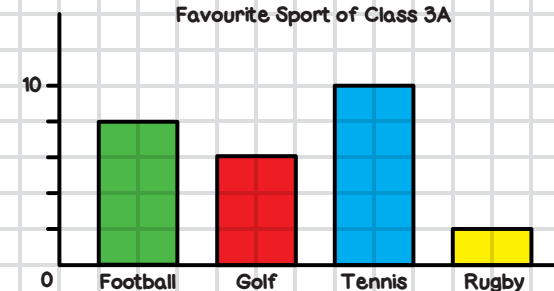
\_\_\_\_\_

9



10

Favourite Sport of Class 3A



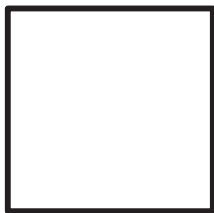
How many play golf?

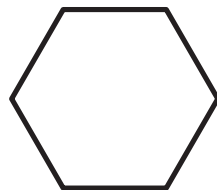


MY LAST SCORE?! .....

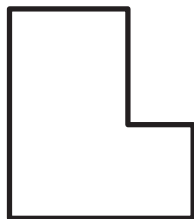
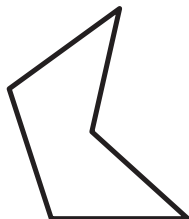
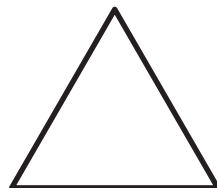
HAVE I BEAT THAT?! .....

1 Tick the shape that is not symmetrical?


☐

☐

☐

2 Tick the regular polygon?


☐

☐

☐

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

$300\text{cm} = \underline{\hspace{2cm}} \text{m}$

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

$30\text{mm} = \underline{\hspace{2cm}} \text{cm}$

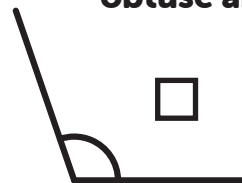
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

$3000\text{g} = \underline{\hspace{2cm}} \text{kg}$

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

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

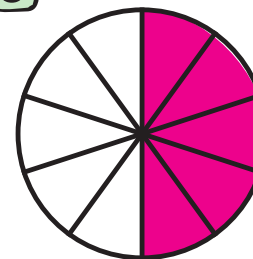
7 Tick the obtuse angle?


☐

☐

☐

8



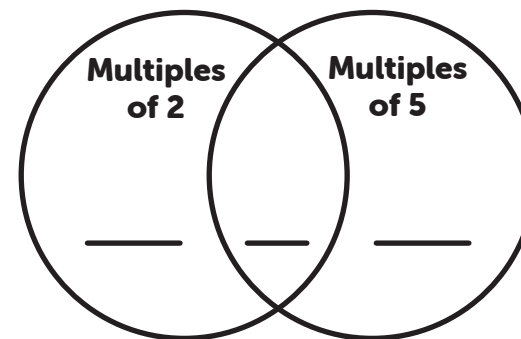
=

=

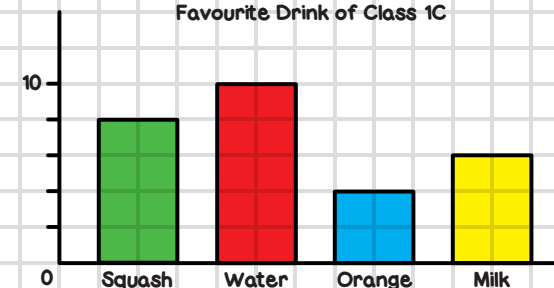
                    

9



10

Favourite Drink of Class 1C



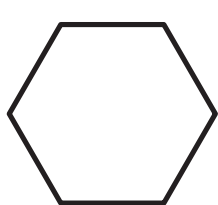
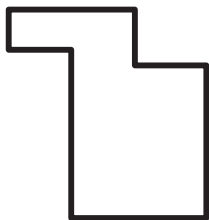
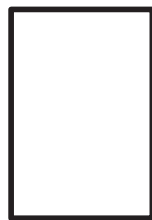
How many drink milk?



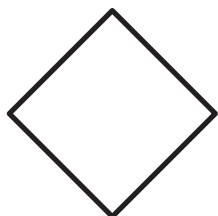
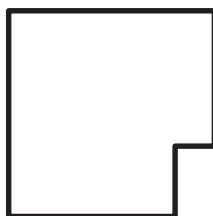
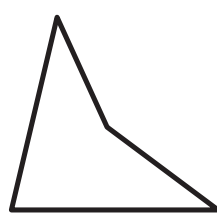
MY LAST SCORE?! .....

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

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

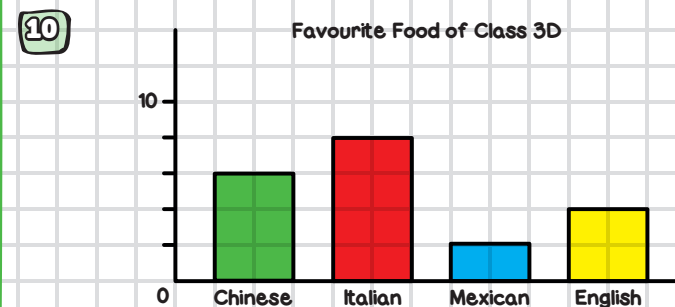
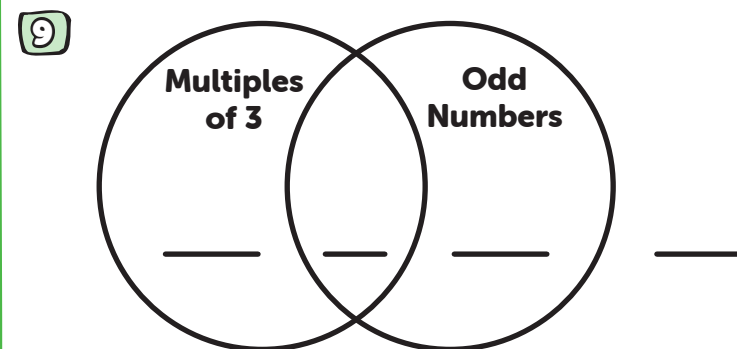
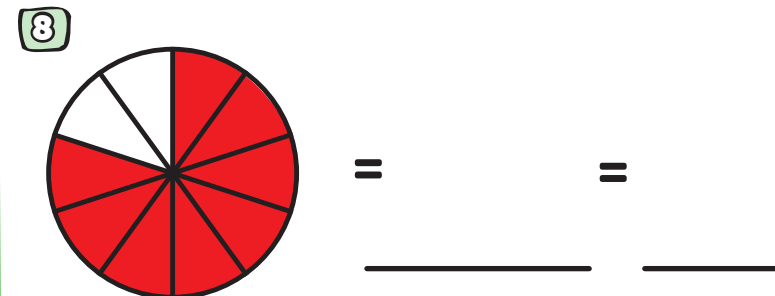
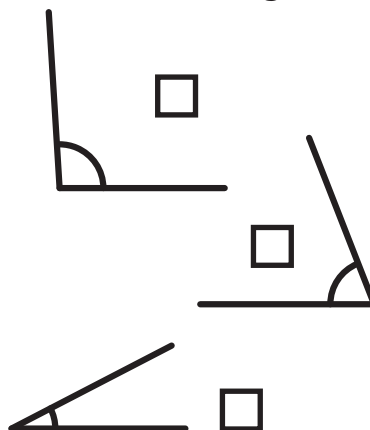
5  $1000\text{g} = \underline{\hspace{2cm}} \text{kg}$

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

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?

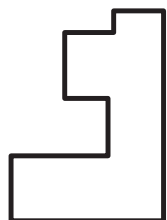
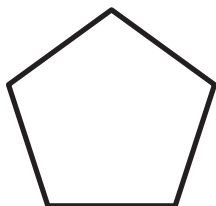
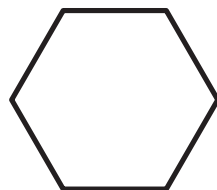


MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

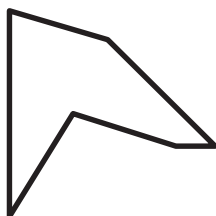
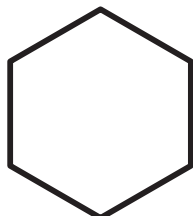
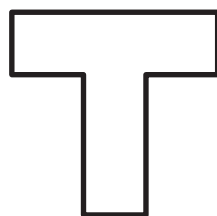
1

Tick the shape that is not symmetrical?


☐

☐

☐

2

Tick the regular polygon?


☐

☐

☐

3

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

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

4

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

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

5

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

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

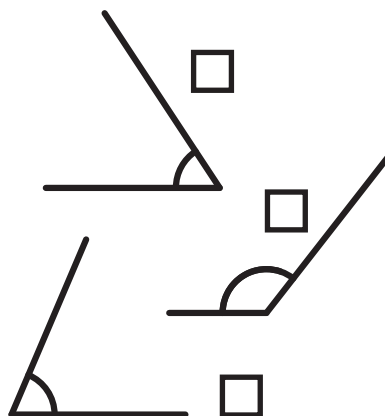
6

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

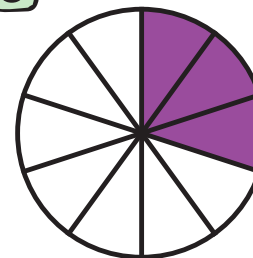
$$2000\text{ml} = \underline{\hspace{2cm}} \text{L}$$

7

Tick the obtuse angle?

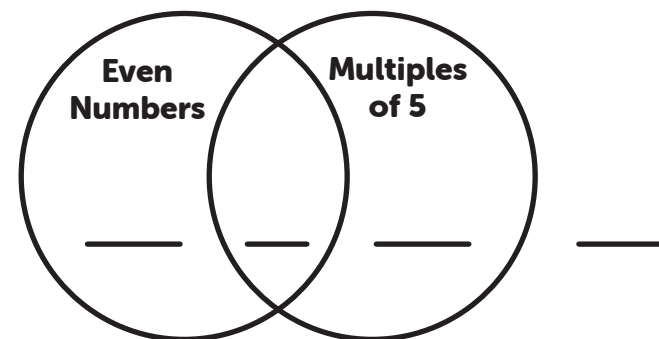


8



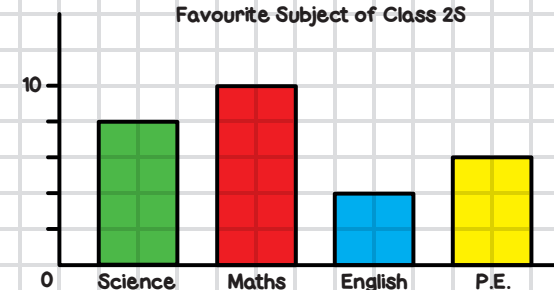
$$= \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

9



10

Favourite Subject of Class 2S



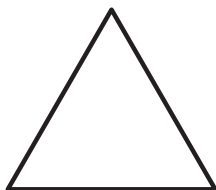
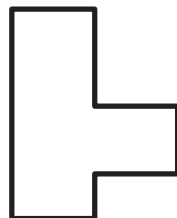
How many like maths?



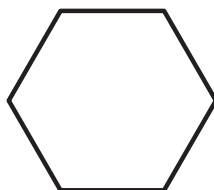
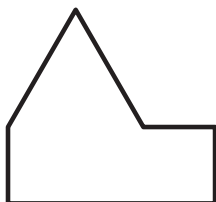
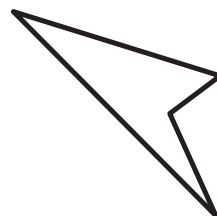
MY LAST SCORE?! .....

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

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

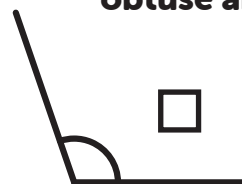
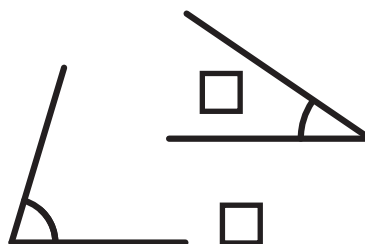
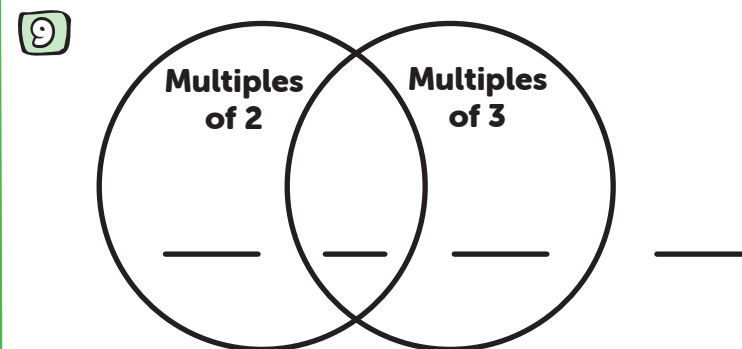
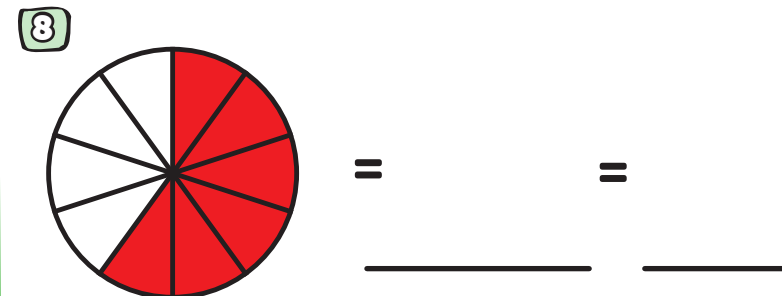
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

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

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

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

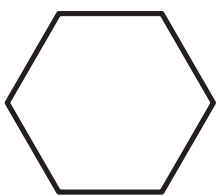
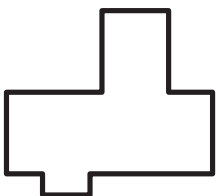
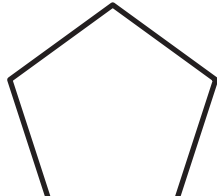
7 Tick the obtuse angle?


☐

☐
☐


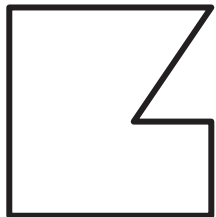
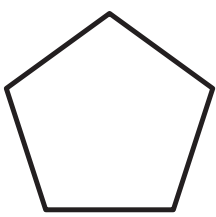
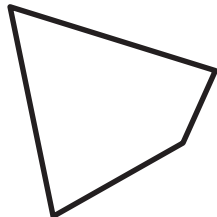
MY LAST SCORE?! .....

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

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

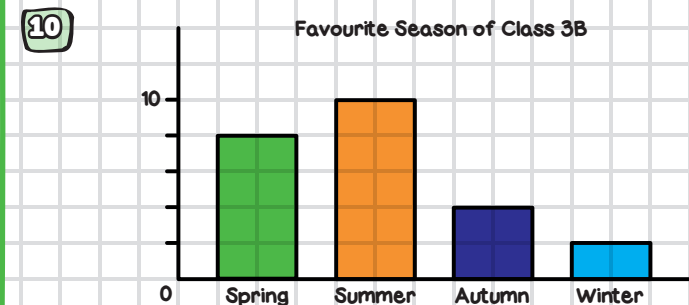
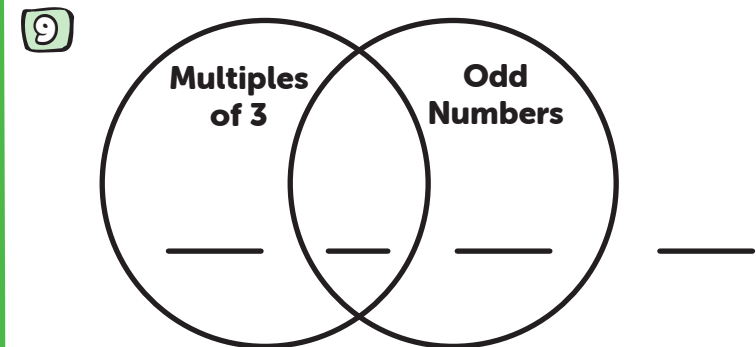
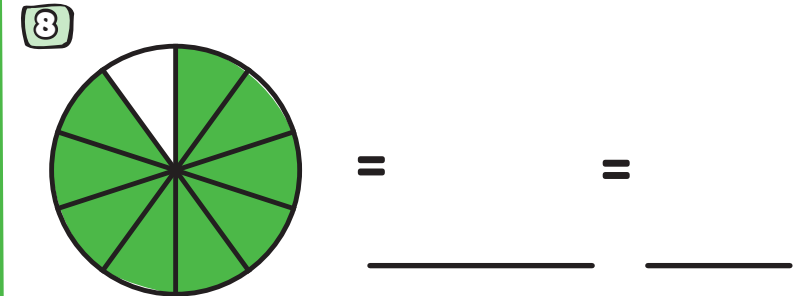
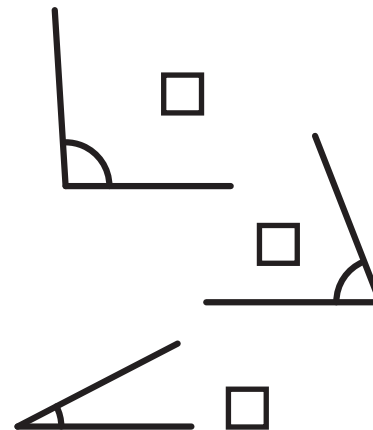
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

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

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

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

7 Tick the obtuse angle?



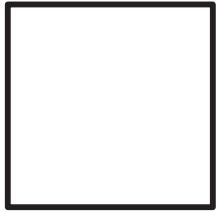
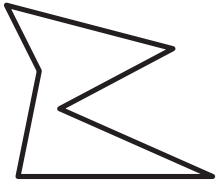
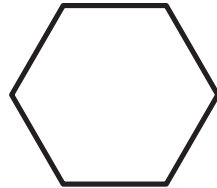
How many like Spring?



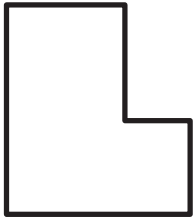
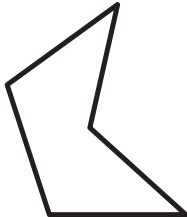
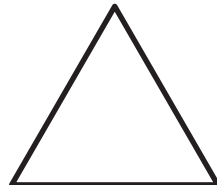
MY LAST SCORE?! .....

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

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

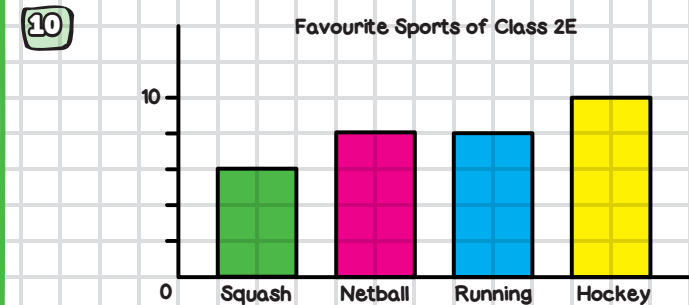
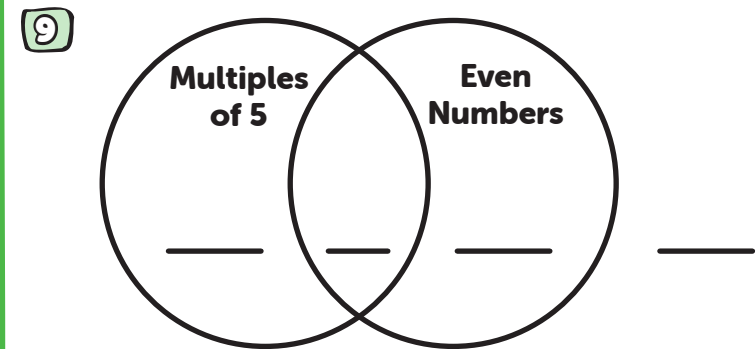
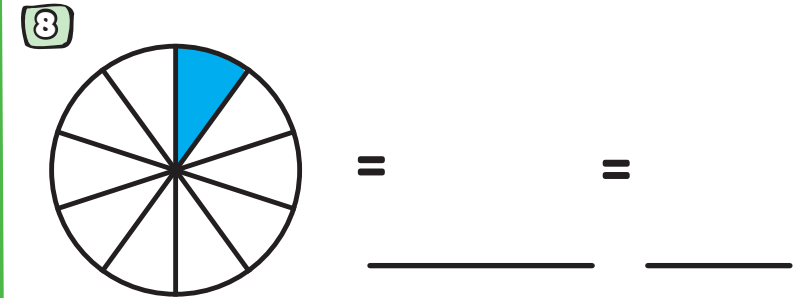
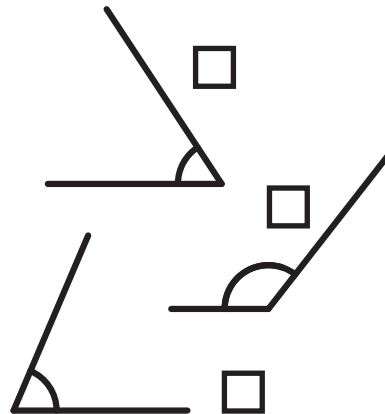
5  $1\text{kg} = \underline{\hspace{2cm}} \text{g}$

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

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

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

7 Tick the obtuse angle?



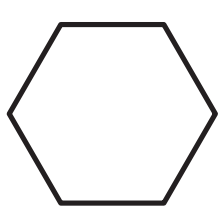
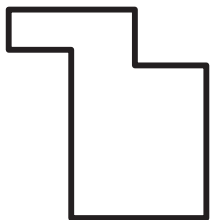
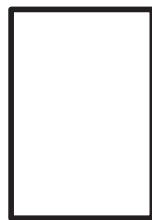
How many like squash?



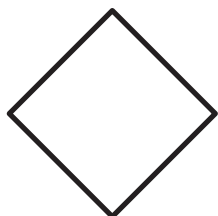
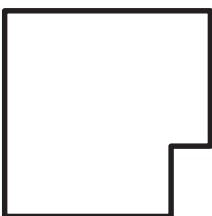
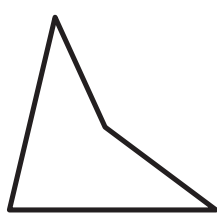
MY LAST SCORE?! .....

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

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

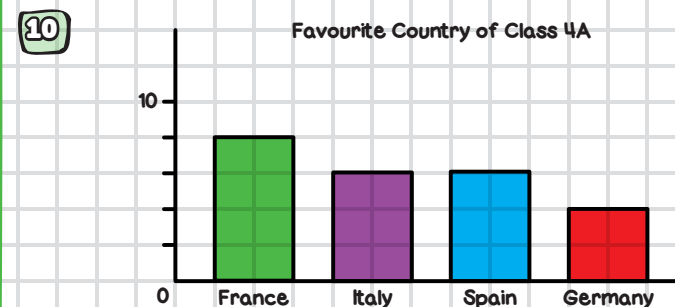
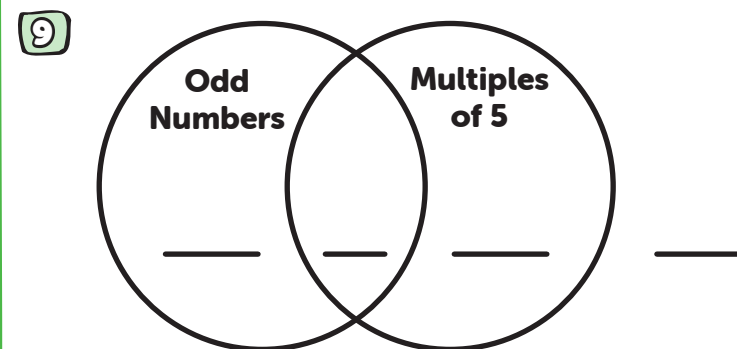
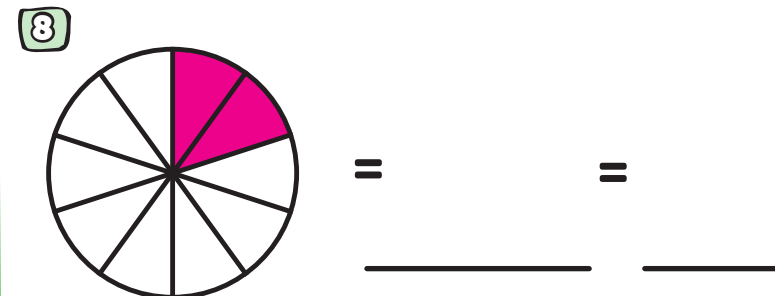
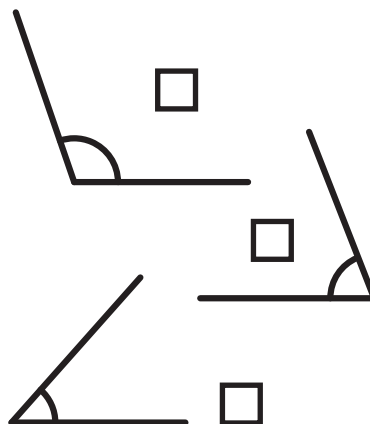
5  $1000\text{g} = \underline{\hspace{2cm}} \text{ kg}$

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

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?

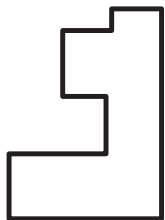
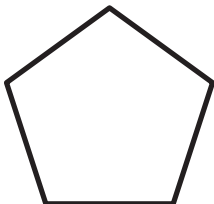
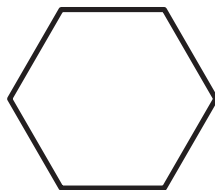


MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

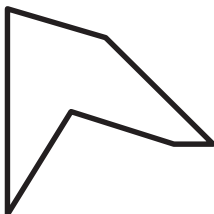
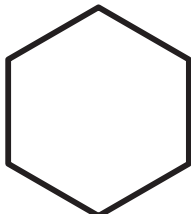
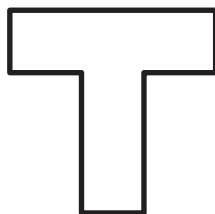
1

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

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

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

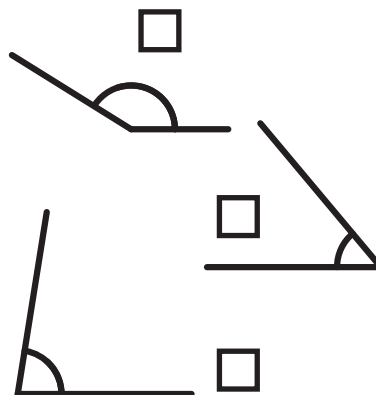
6

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

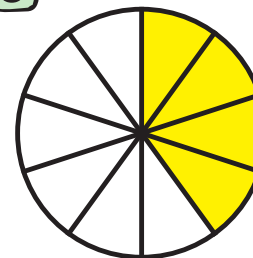
$3000\text{ml} = \underline{\hspace{2cm}} \text{L}$

7

Tick the obtuse angle?


☐
☐
☐

8



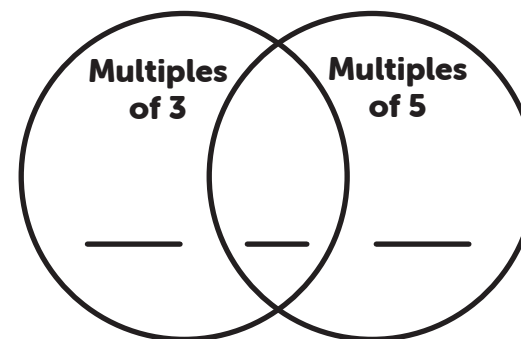
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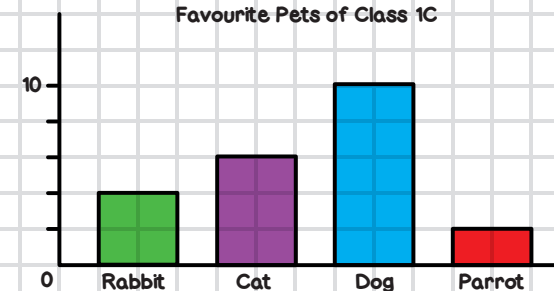
\_\_\_\_\_

9



10

Favourite Pets of Class 1C



How many like cats?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

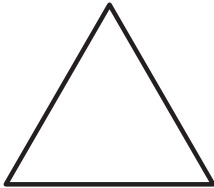
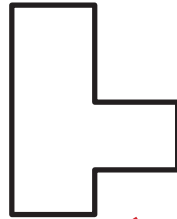
# ANSWERS

SAFE 11

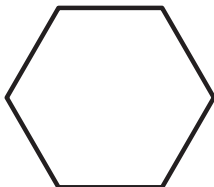
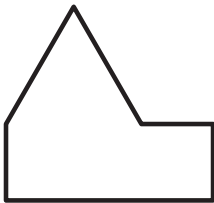
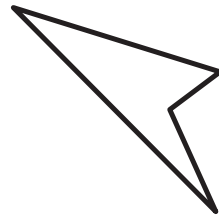
SET: 1

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

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

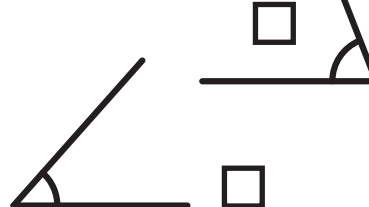
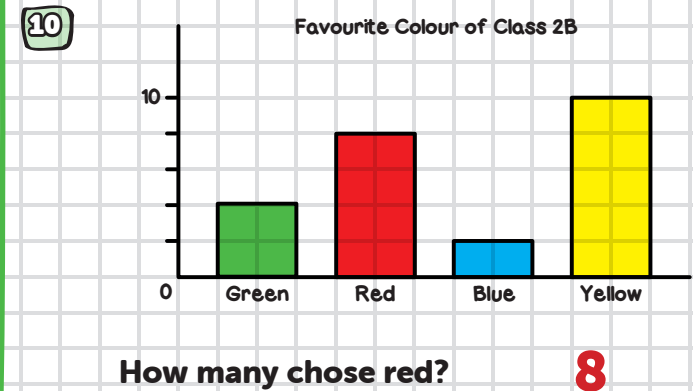
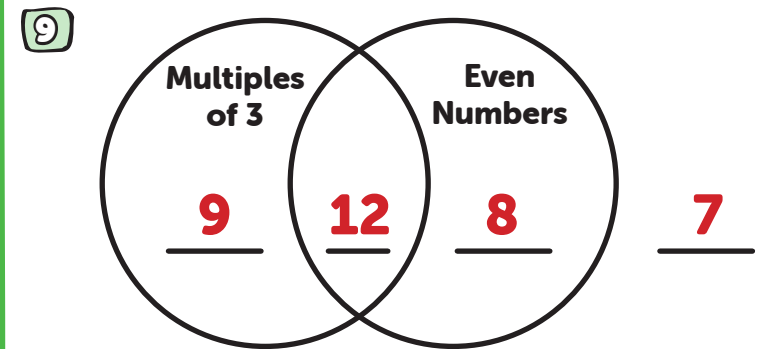
5  $1\text{kg} = \underline{1000} \text{ g}$

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

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

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

7 Tick the obtuse angle?


☒

☐
☐


MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



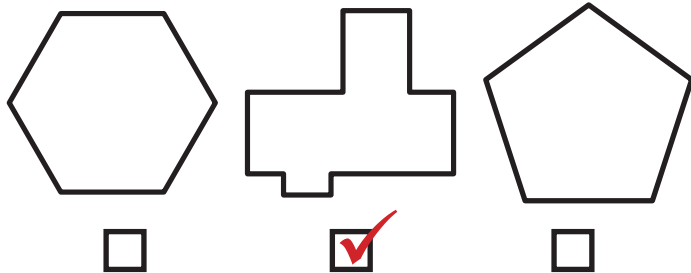
# ANSWERS

SAFE 11

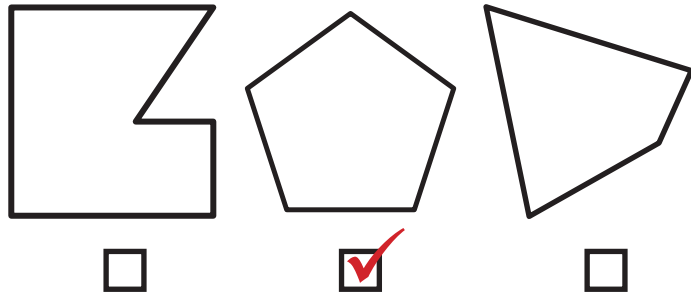
SET: 2

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

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

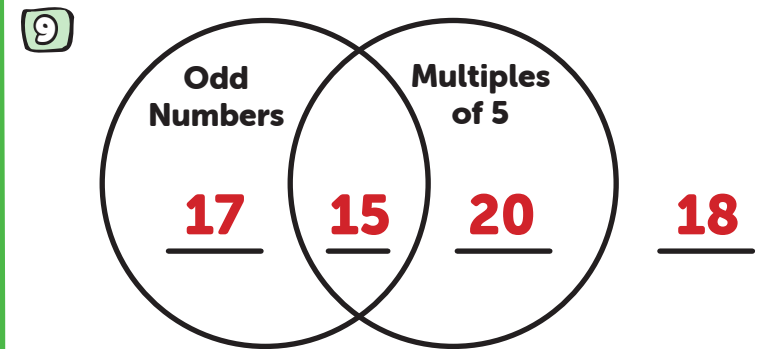
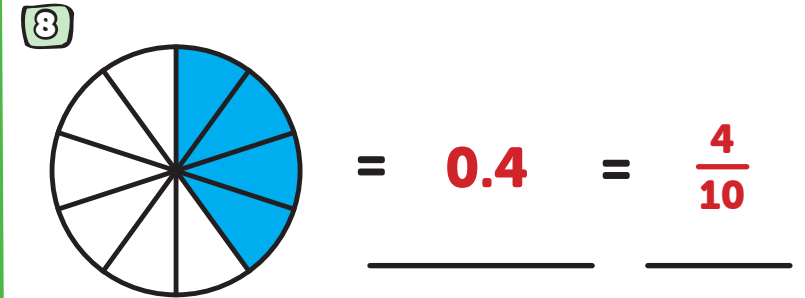
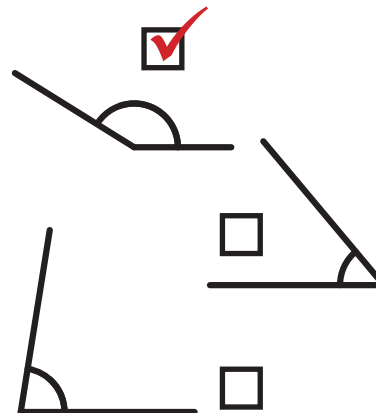
5  $1\text{kg} = \underline{1000} \text{ g}$

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

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

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

7 Tick the obtuse angle?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

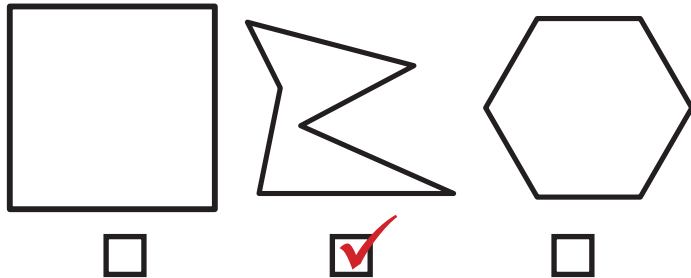
# ANSWERS

SAFE 11

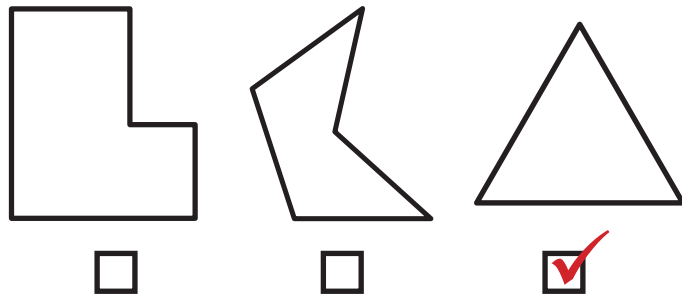
SET: 3

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



3 100cm = 1 m

300cm = 3 m

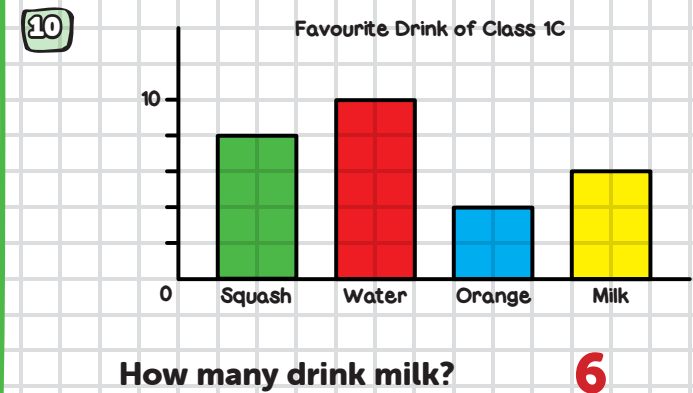
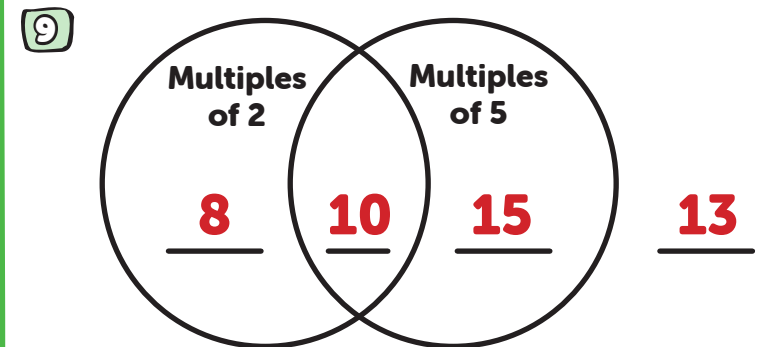
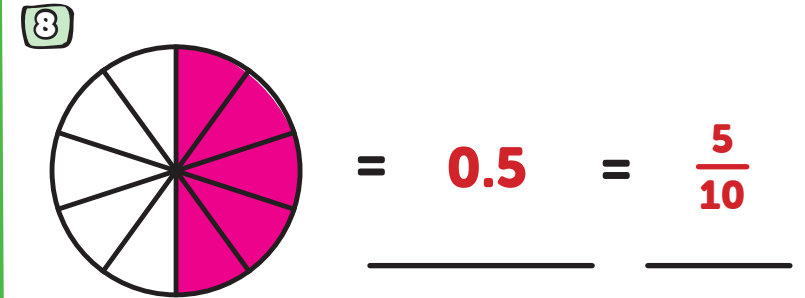
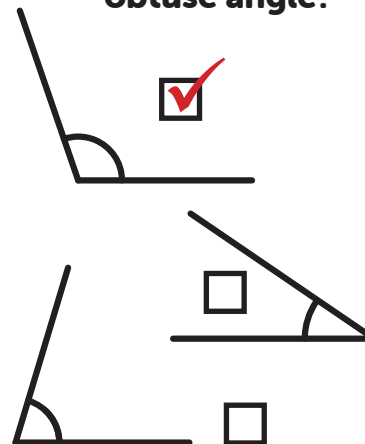
4 1cm = 10 mm

30mm = 3 cm

5 1kg = 1000 g  
3000g = 3 kg

6 1000ml = 1 L  
 $\frac{3}{4}$  L = 750 ml

7 Tick the obtuse angle?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

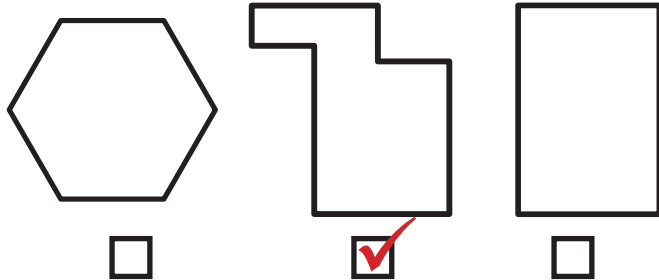
# ANSWERS

SAFE 11

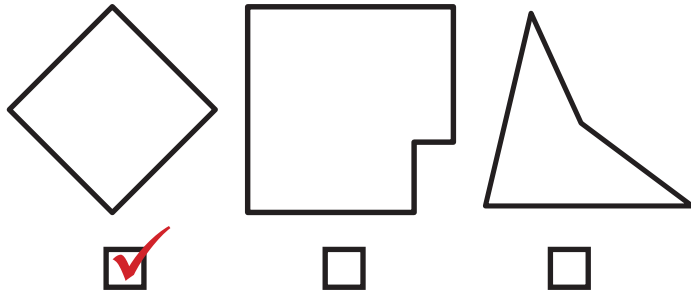
SET: 4

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



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

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

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

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

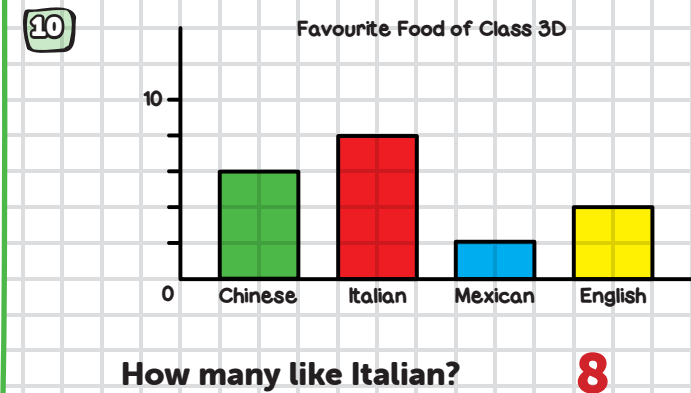
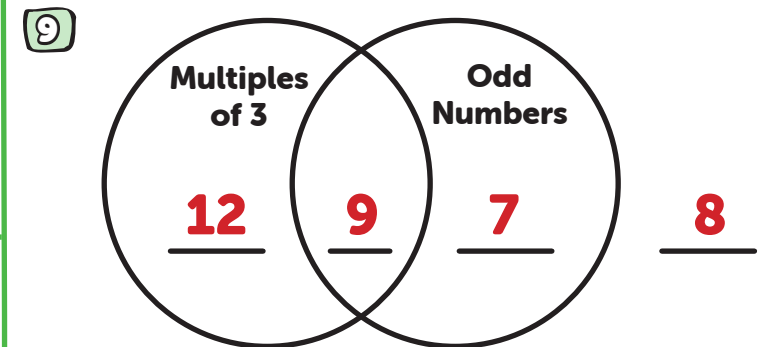
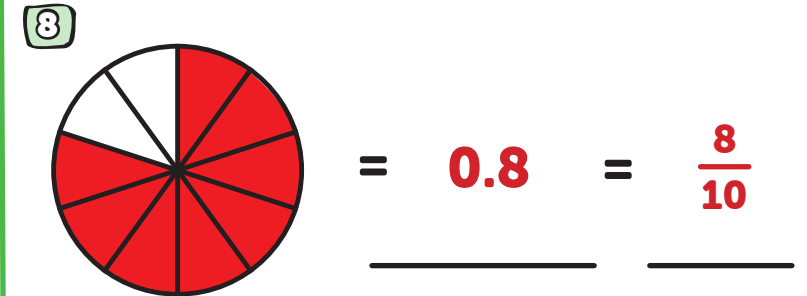
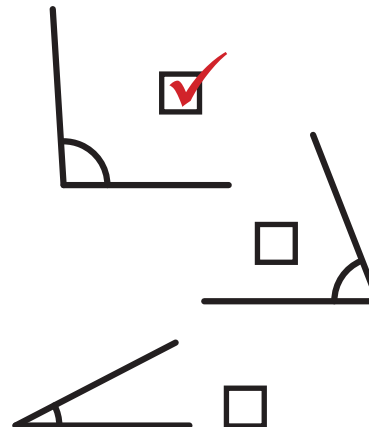
5  $1000\text{g} = \underline{1} \text{ kg}$

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

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

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

7 Tick the obtuse angle?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

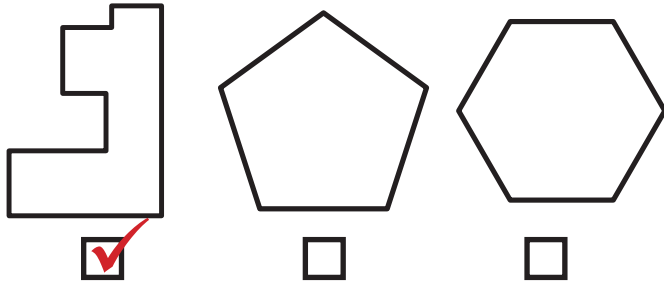
# ANSWERS

SAFE 11

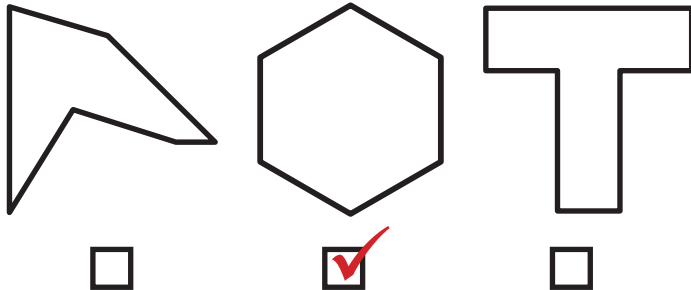
SET: 5

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



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

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

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

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

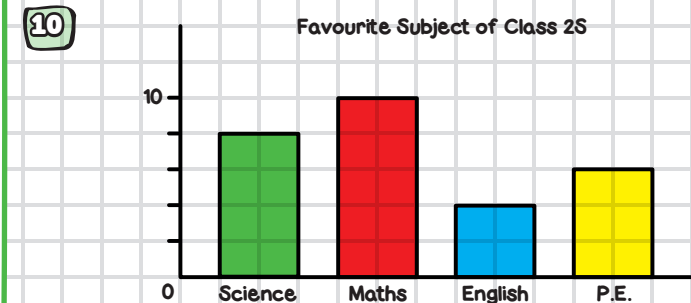
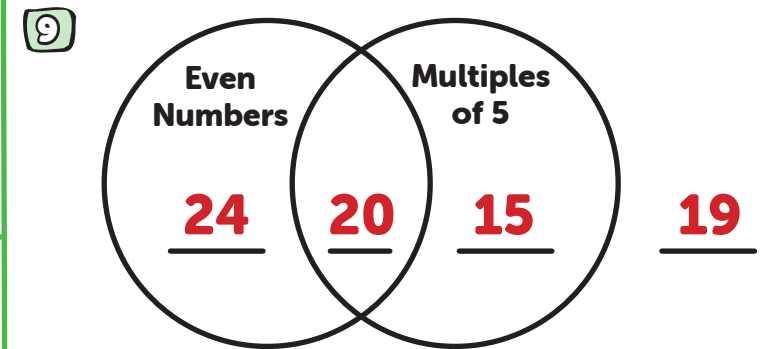
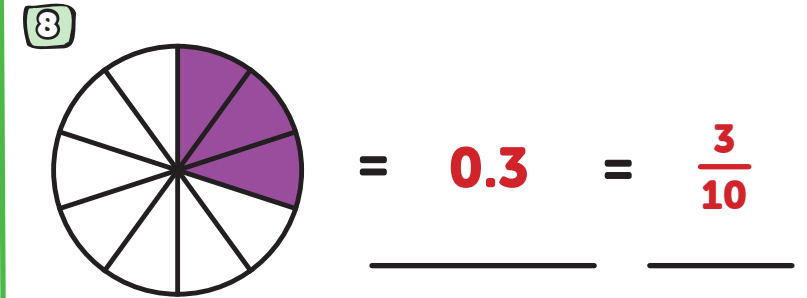
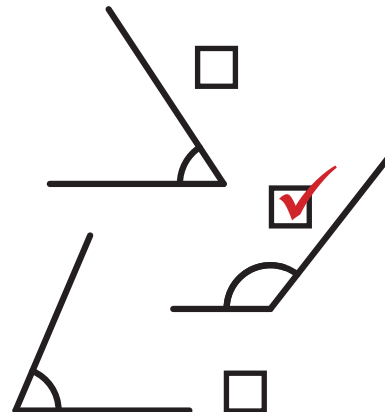
5  $1\text{kg} = \underline{1000} \text{ g}$

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

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

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

7 Tick the obtuse angle?



How many like maths? **10**



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

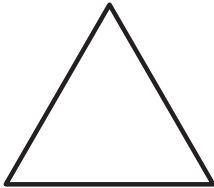
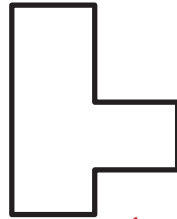
# ANSWERS

SAFE 11

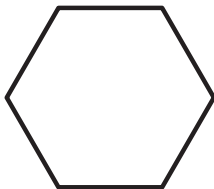
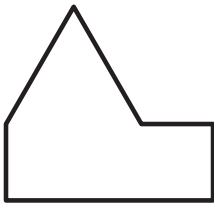
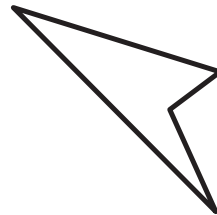
SET: 6

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

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

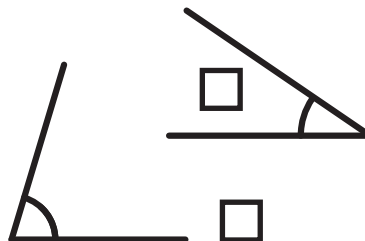
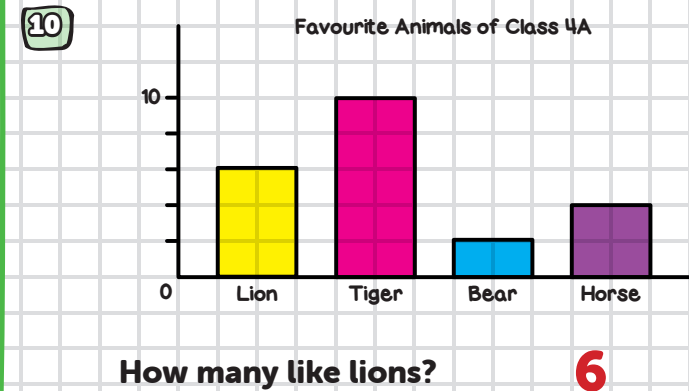
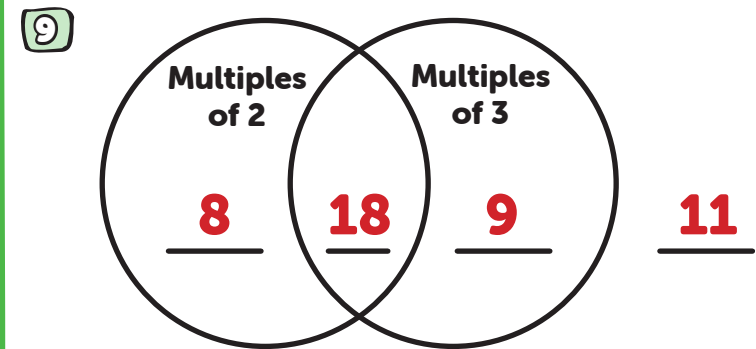
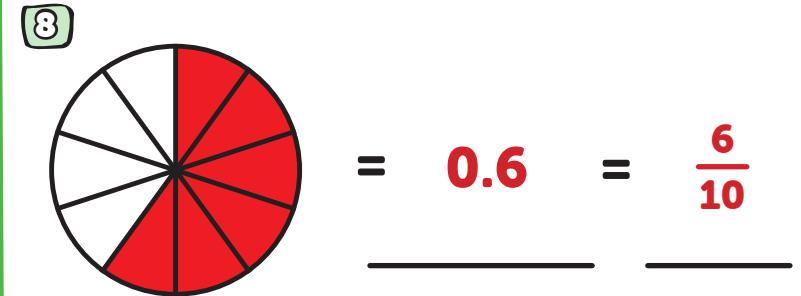
5  $1\text{kg} = \underline{1000} \text{ g}$

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

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

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

7 Tick the obtuse angle?


☒

☐
☐


MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

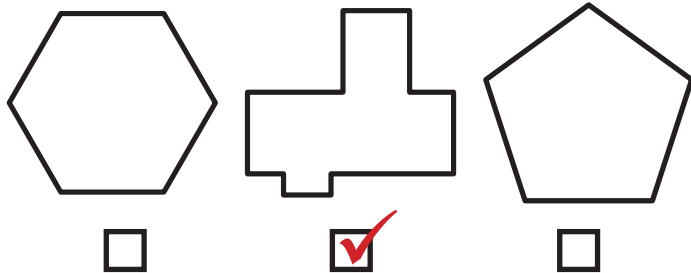
# ANSWERS

SAFE 11

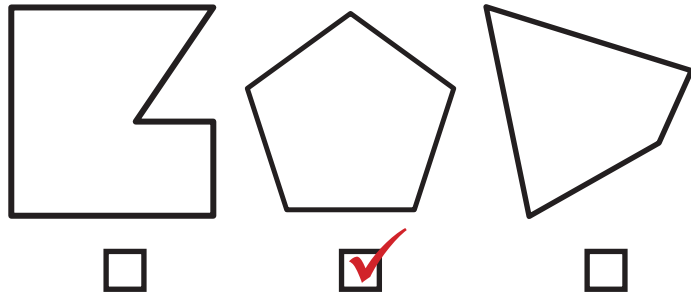
SET: 7

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



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

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

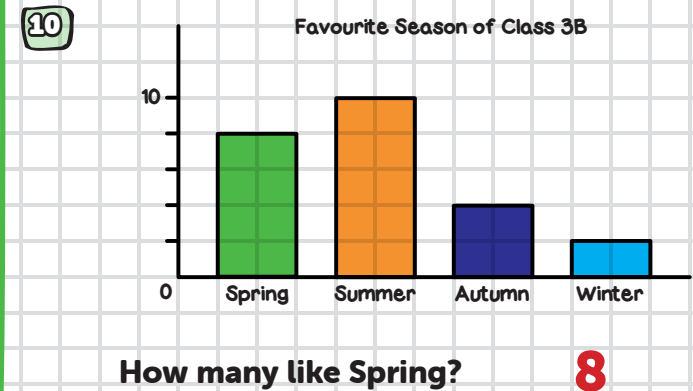
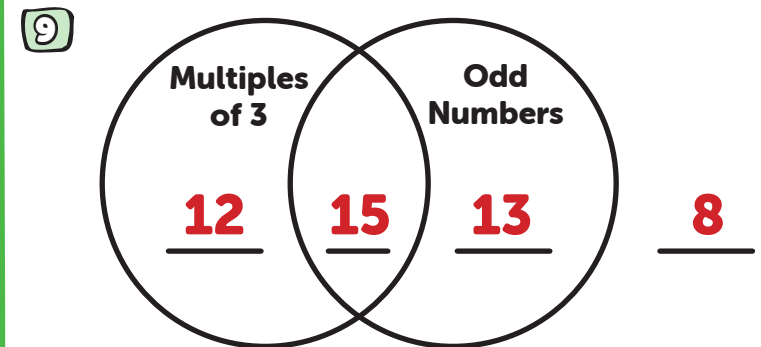
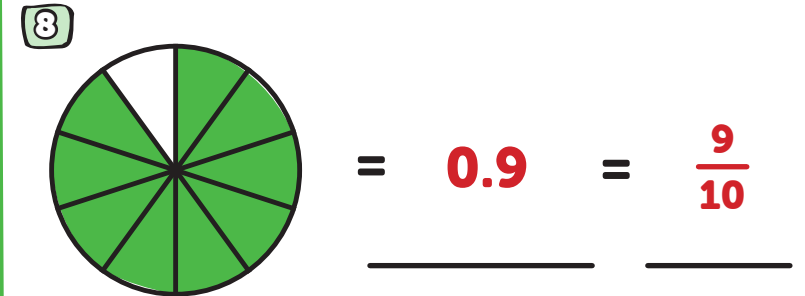
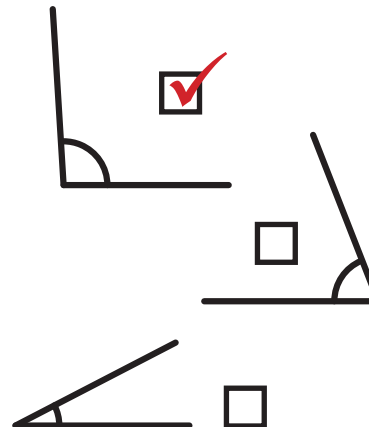
4  $1\text{cm} = \underline{10} \text{ mm}$

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

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?! .....

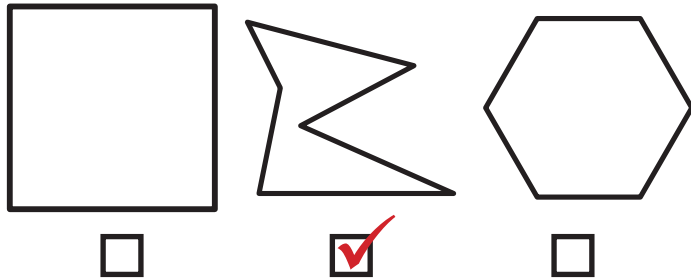
# ANSWERS

SAFE 11

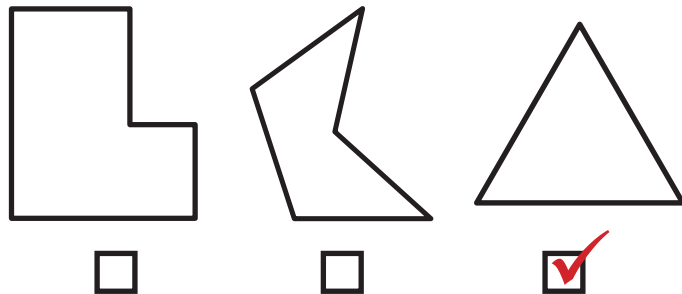
SET: 8

/10

1 Tick the shape that is not symmetrical?



2 Tick the regular polygon?



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

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

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

$60\text{mm} = \underline{6} \text{ cm}$

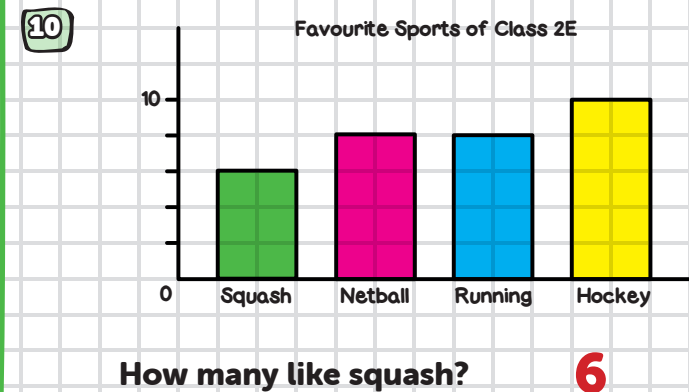
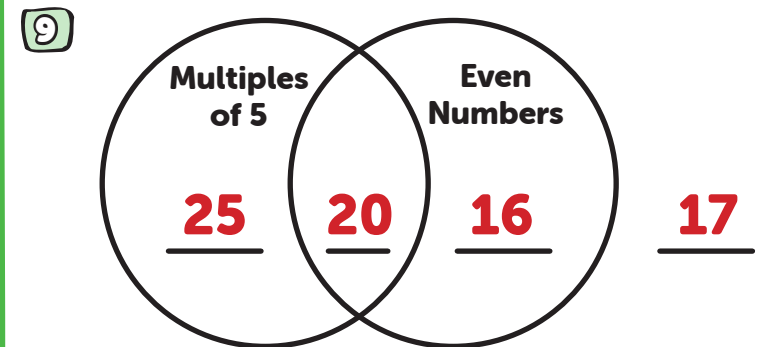
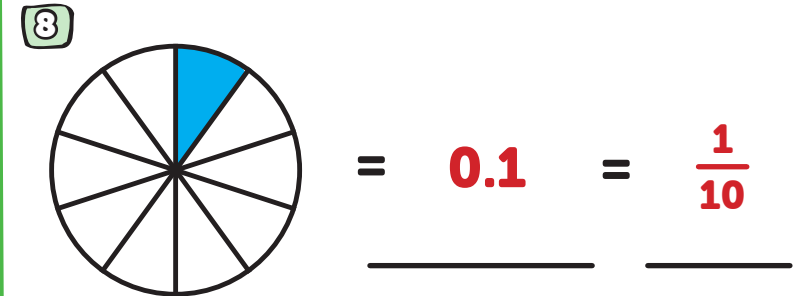
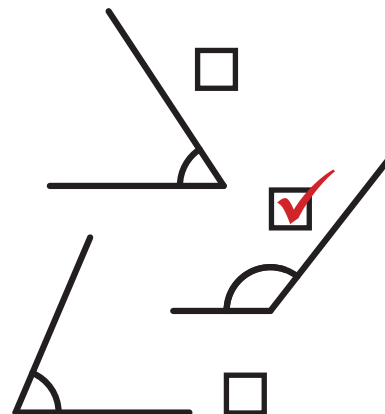
5  $1\text{kg} = \underline{1000} \text{ g}$

$5\text{kg} = \underline{5000} \text{ g}$

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

$4\text{L} = \underline{4000} \text{ ml}$

7 Tick the obtuse angle?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

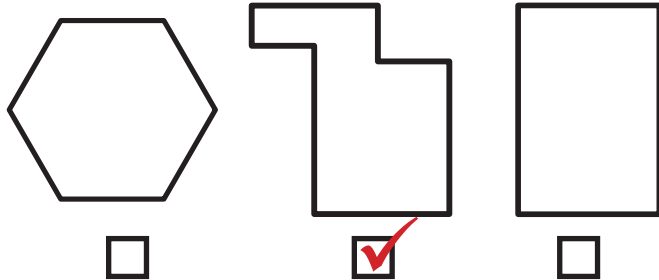
# ANSWERS

SAFE 11

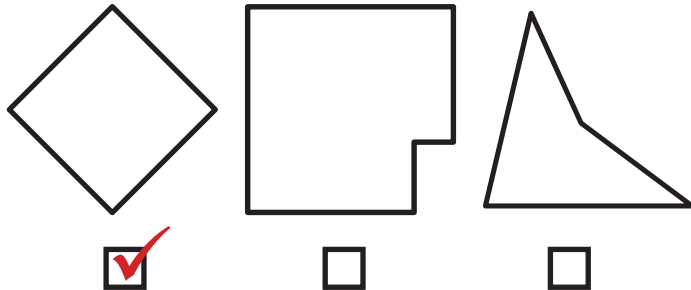
SET: 9

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

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

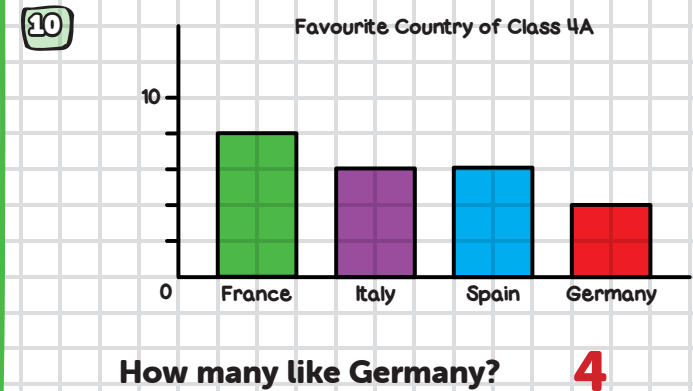
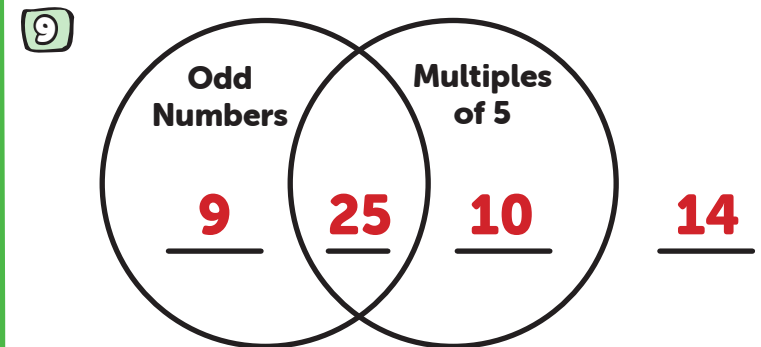
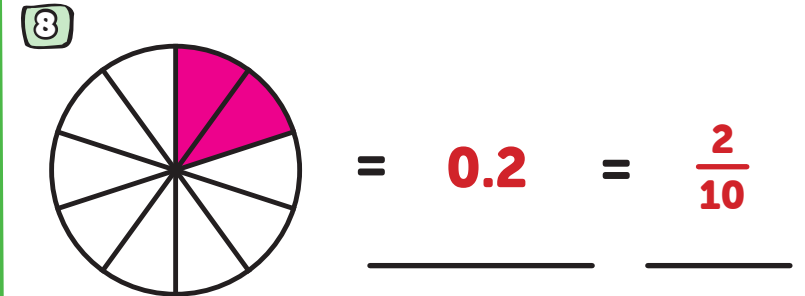
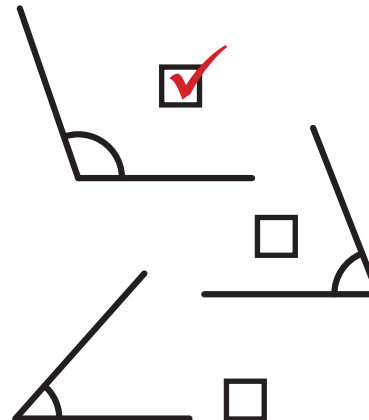
5  $1000\text{g} = \underline{1} \text{ kg}$

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

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

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

7 Tick the obtuse angle?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

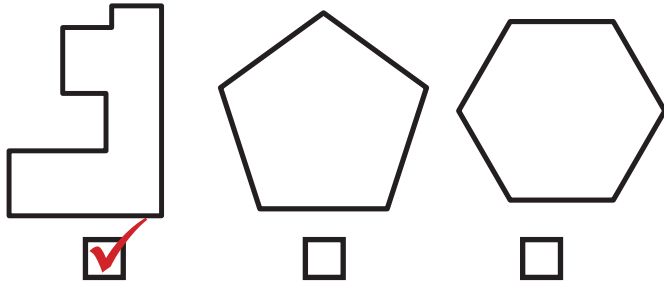
# ANSWERS

SAFE 11

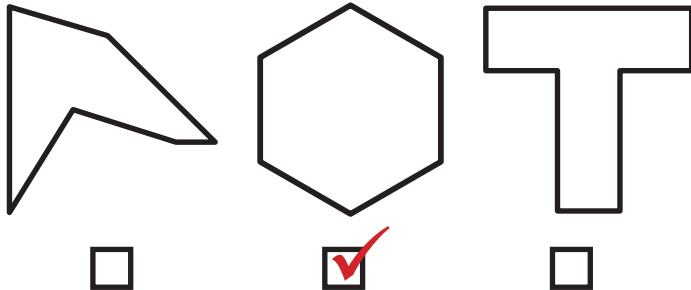
SET: 10

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

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

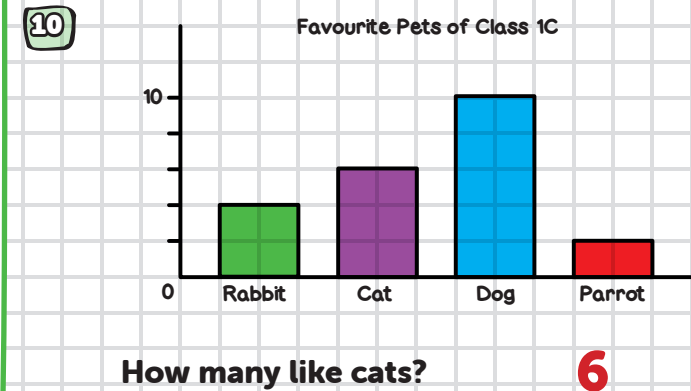
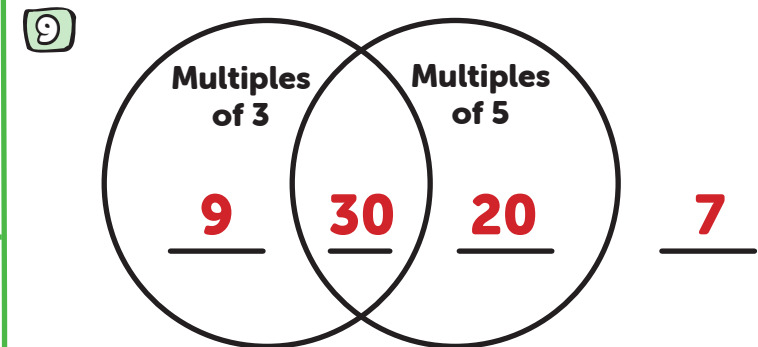
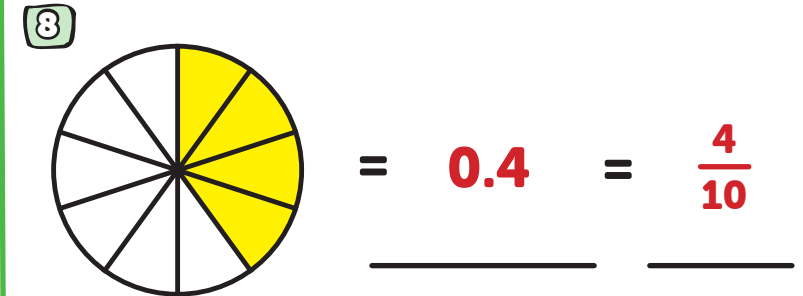
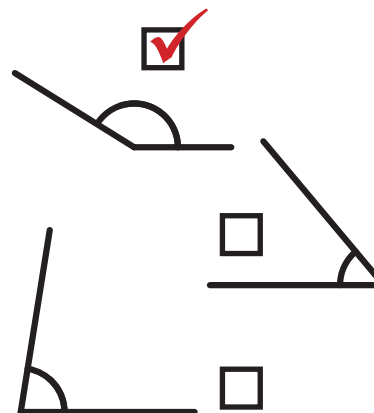
5  $1000\text{g} = \underline{1} \text{ kg}$

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

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

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

7 Tick the obtuse angle?



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....