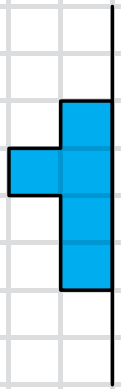


# Big Maths Beat That!: Teacher Notes

SAFE Challenge 8			
	Step Location in the SAFE framework		Title of Step
	Progress Drive	Step No.	
Q1	Shape: Explore & Draw	9	I can reflect a simple 2D shape when given a vertical line of symmetry
Q2	Shape: 2D Shapes	14	I can recognise a quadrilateral and a hexagon
Q3	Shape: 2D Shapes	15	I can recognise a pentagon and an octagon
Q4	Shape: 3D Shapes	12	I can describe 3D shapes using different properties
Q5	Amounts: Amounts of Money	10	I know that amounts over £1 can be written as 125p or '£1 and 25p'
Q6	Amounts: Amounts of Temperature	6	I can use a thermometer to measure the temperature
Q7	Fractions: Fractions: Counting	2	I can count in halves and record my counting as a mixed number
Q8	Fractions: Fractions: Counting	3	I can count in halves and record as a mixed number and improper fraction
Q9	Explaining Data: Bar Charts	3	I can read a bar chart
Q10	Dangerous Maths: Algebra	3	I understand that '=' means 'the same amount as'

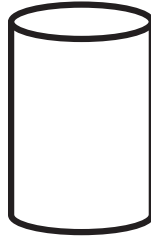
1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



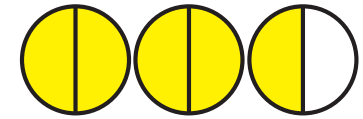
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

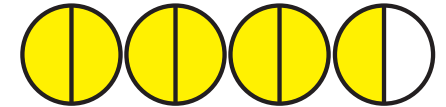
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

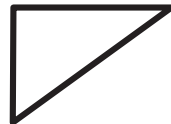
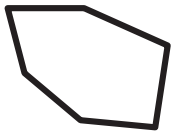
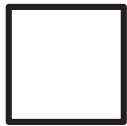


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\_\_\_\_\_

2

Tick the hexagon



3

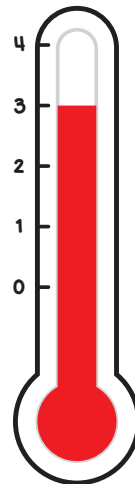
Tick the pentagon



5

136p = £ \_\_\_\_\_ and \_\_\_\_\_ p

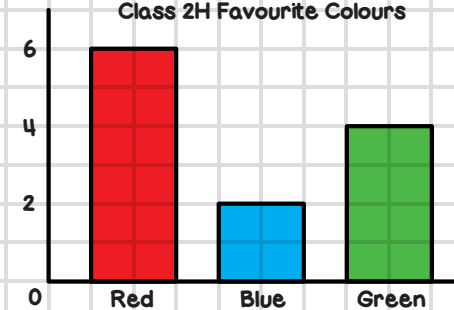
6



\_\_\_\_\_ °C

9

Class 2H Favourite Colours



How many chose red?

10

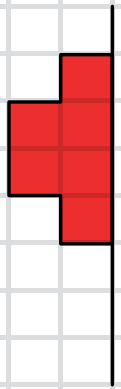
10 = 2 + \_\_\_\_\_

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



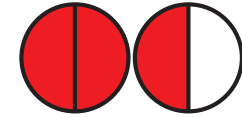
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

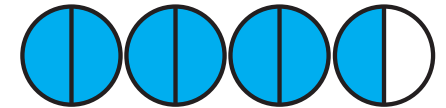
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

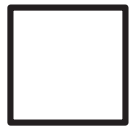
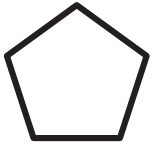


=

\_\_\_\_\_

2

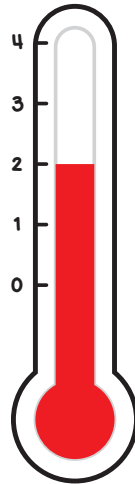
Tick the quadrilateral



5

231p = £ \_\_\_\_\_ and \_\_\_\_\_ p

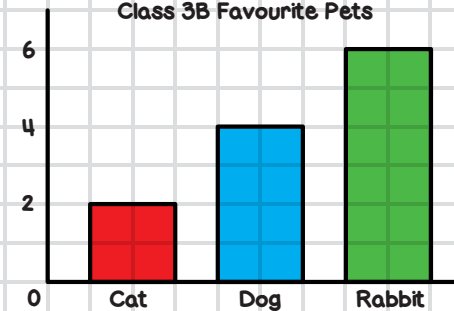
6



\_\_\_\_\_ °C

9

Class 3B Favourite Pets



How many chose cats?

10

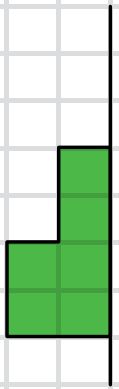
\_\_\_\_\_ = 6 + 4



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



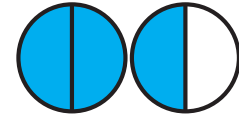
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

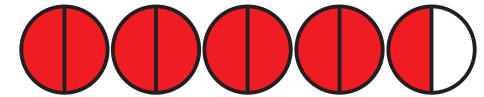
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

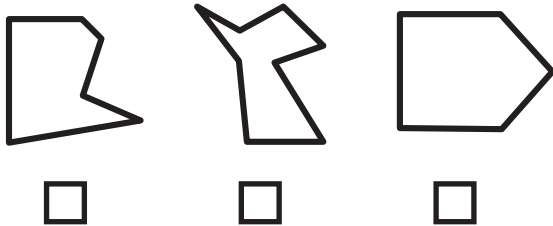


=

\_\_\_\_\_

2

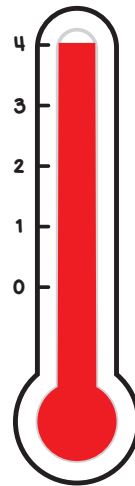
Tick the hexagon



5

476p = £ \_\_\_\_\_ and \_\_\_\_\_ p

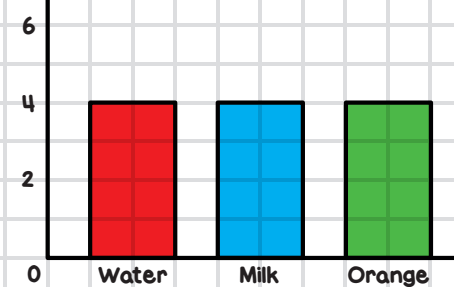
6



\_\_\_\_\_ °C

9

Class 1C Favourite Drinks



How many like milk?

10

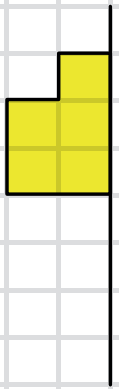
\_\_\_\_\_ = 1 + 9



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

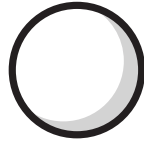
1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



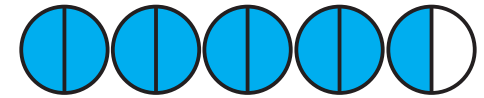
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

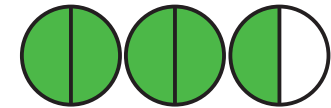
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction



=

\_\_\_\_\_

2

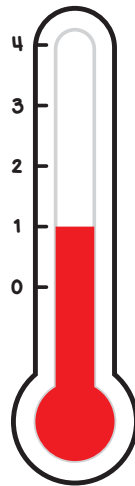
Tick the hexagon



5

113p = £ \_\_\_\_\_ and \_\_\_\_\_ p

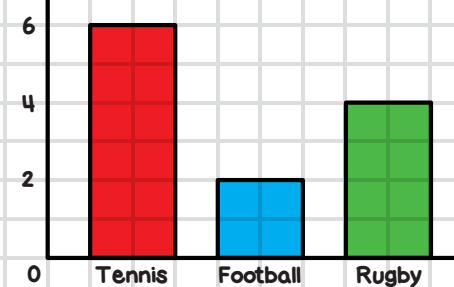
6



\_\_\_\_\_ °C

9

Class 4A Favourite Sports



How many like tennis?

10

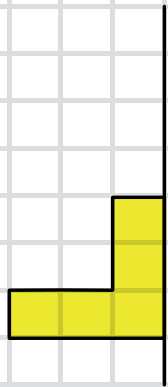
10 = 7 + \_\_\_\_\_

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



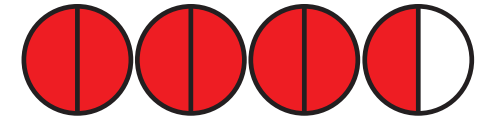
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

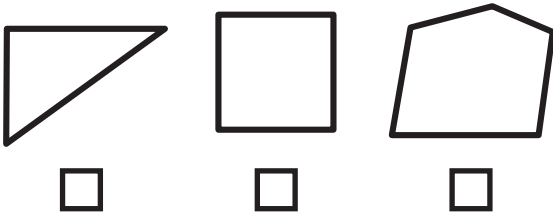


=

\_\_\_\_\_

2

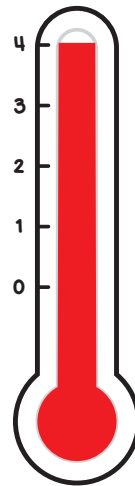
Tick the quadrilateral



5

543p = £ \_\_\_\_\_ and \_\_\_\_\_ p

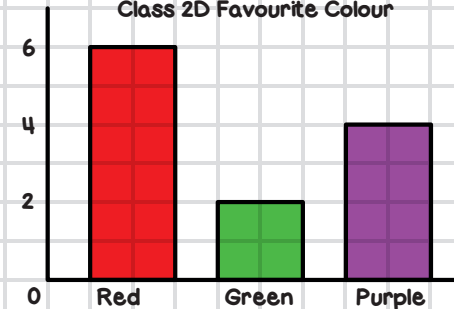
6



\_\_\_\_\_ °C

9

Class 2D Favourite Colour



How many like purple?

10

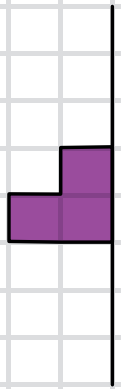
10 = 1 + \_\_\_\_\_

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



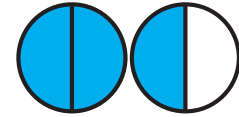
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

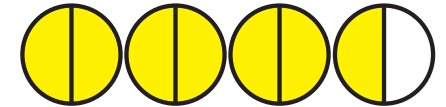
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

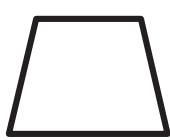


=

\_\_\_\_\_

2

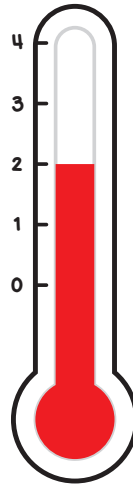
Tick the quadrilateral



5

321p = £ \_\_\_\_\_ and \_\_\_\_\_ p

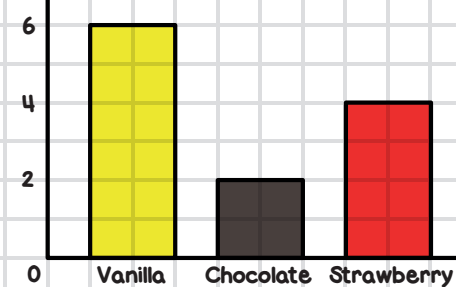
6



\_\_\_\_\_ °C

9

Class 5E Favourite Ice Cream



How many like vanilla?

10

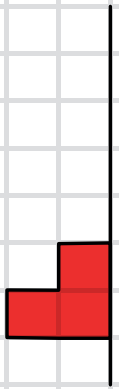
\_\_\_\_\_ = 4 + 6



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

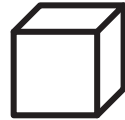
1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

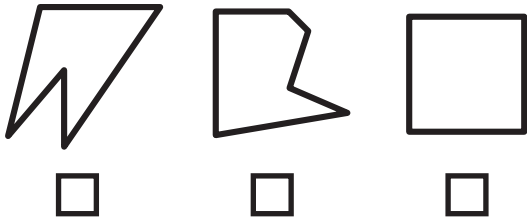
Write as a mixed number



\_\_\_\_\_

2

Tick the quadrilateral

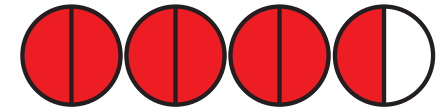


5

277p = £ \_\_\_\_\_ and \_\_\_\_\_ p

8

Write as a mixed number and an improper fraction

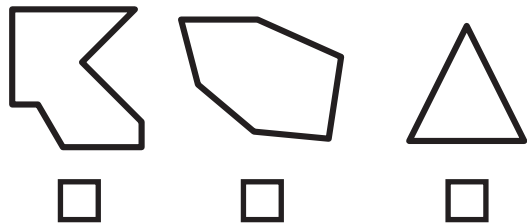


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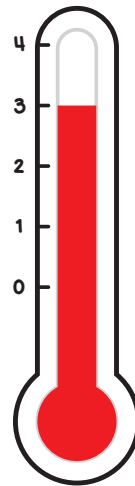
\_\_\_\_\_

3

Tick the octagon



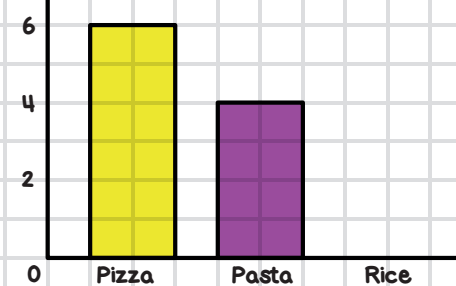
6



\_\_\_\_\_ °C

9

Class 2C Favourite Foods



How many like pasta?

10

\_\_\_\_\_ = 1 + 9

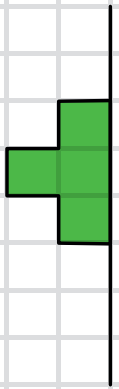
MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....





1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



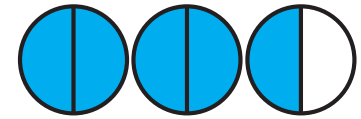
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

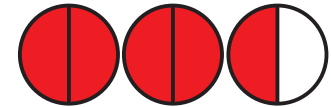
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

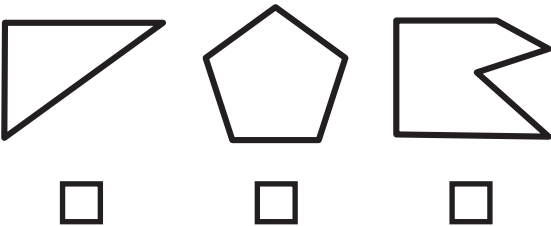


=

\_\_\_\_\_

2

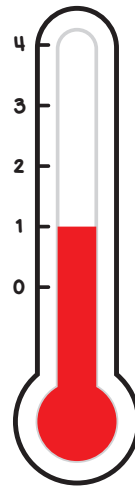
Tick the hexagon



5

451p = £ \_\_\_\_\_ and \_\_\_\_\_ p

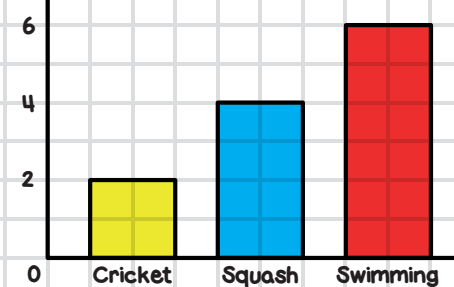
6



\_\_\_\_\_ °C

9

Class 1D Favourite Sports



How many play cricket?

3

Tick the pentagon



10

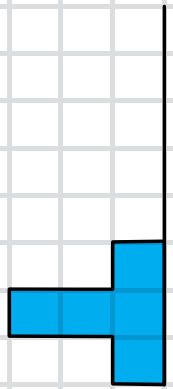
10 = 7 + \_\_\_\_\_

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



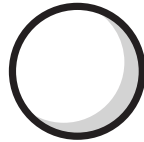
1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



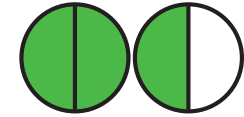
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

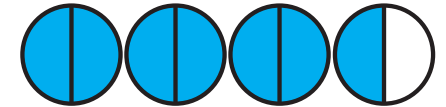
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

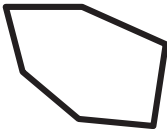
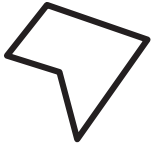
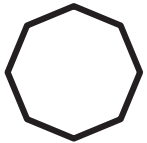


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\_\_\_\_\_

2

Tick the hexagon

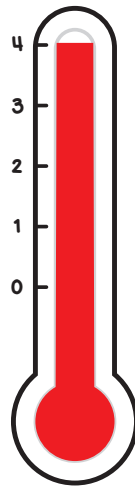


3

Tick the pentagon



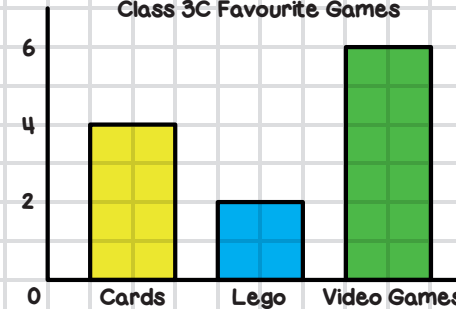
6



\_\_\_\_\_ °C

9

Class 3C Favourite Games



How many play cards?

10

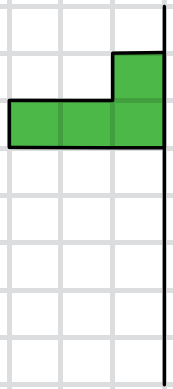
\_\_\_\_\_ = 7 + 3

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1



Reflect this shape in the line of symmetry

4

Name this 3D shape \_\_\_\_\_



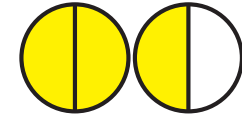
How many?

Faces \_\_\_\_\_ Edges \_\_\_\_\_

Vertices \_\_\_\_\_

7

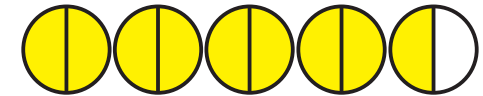
Write as a mixed number



\_\_\_\_\_

8

Write as a mixed number and an improper fraction

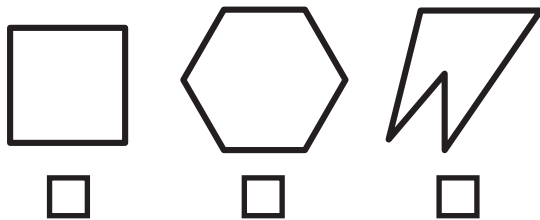


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\_\_\_\_\_

2

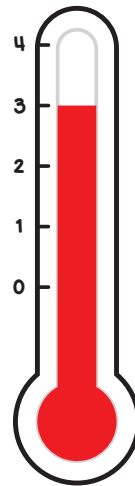
Tick the quadrilateral



5

576p = £ \_\_\_\_\_ and \_\_\_\_\_ p

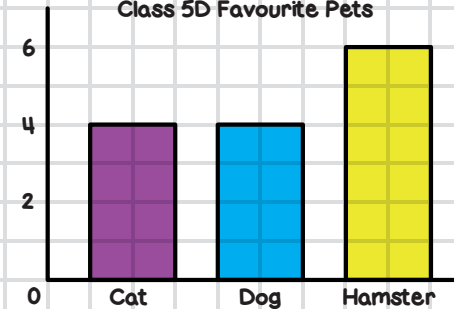
6



\_\_\_\_\_ °C

9

Class 5D Favourite Pets



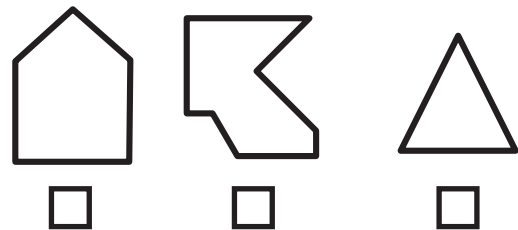
How many like cats?

10

\_\_\_\_\_ = 9 + 1

3

Tick the octagon



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



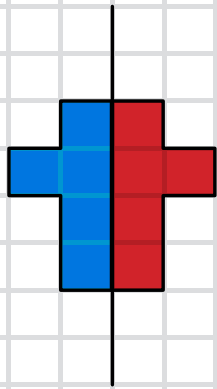
# ANSWERS

SAFE 8

SET: 1

/10

1

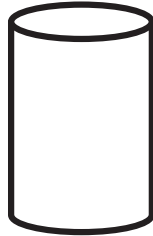


Reflect this shape in the line of symmetry

4

Name this 3D shape

**Cylinder**



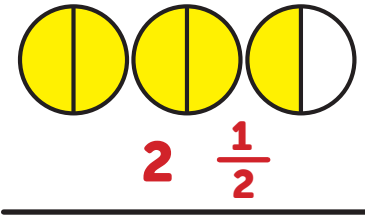
How many?

Faces 3 Edges 2

Vertices 0

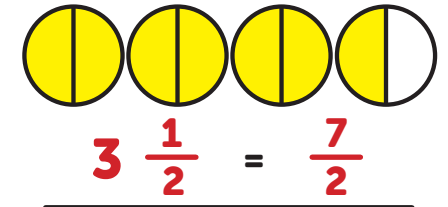
7

Write as a mixed number



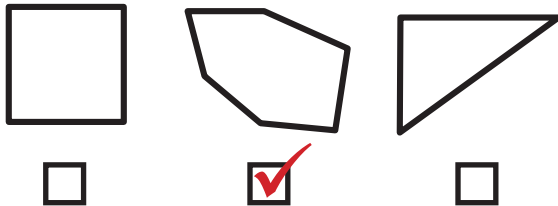
8

Write as a mixed number and an improper fraction



2

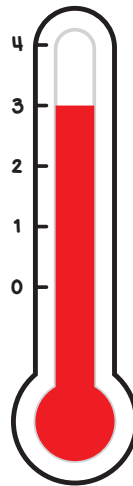
Tick the hexagon



5

136p = £ 1 and 36 p

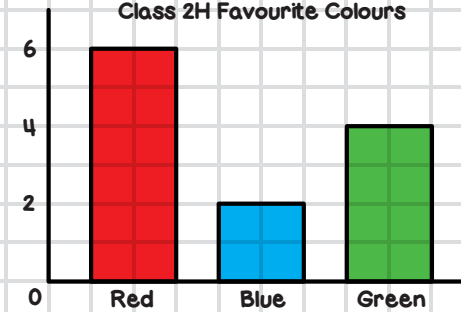
6



3 °C

9

Class 2H Favourite Colours

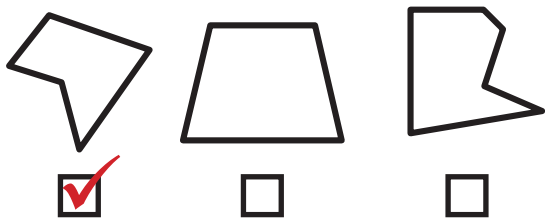


How many chose red?

**6**

3

Tick the pentagon



10

**10 = 2 + 8**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



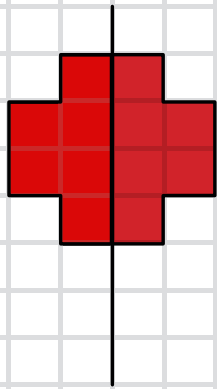
# ANSWERS

SAFE 8

SET: 2

/10

1



Reflect this shape in the line of symmetry

4

Name this 3D shape

Cone



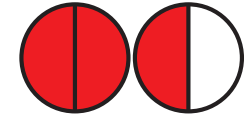
How many?

Faces 2 Edges 1

Vertices 1

7

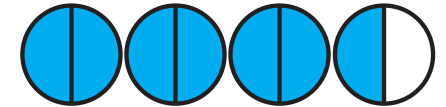
Write as a mixed number



1  $\frac{1}{2}$

8

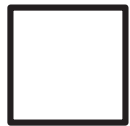
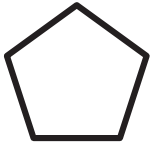
Write as a mixed number and an improper fraction



3  $\frac{1}{2}$  =  $\frac{7}{2}$

2

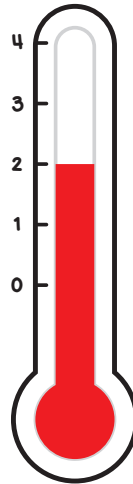
Tick the quadrilateral



5

231p = £ 2 and 31 p

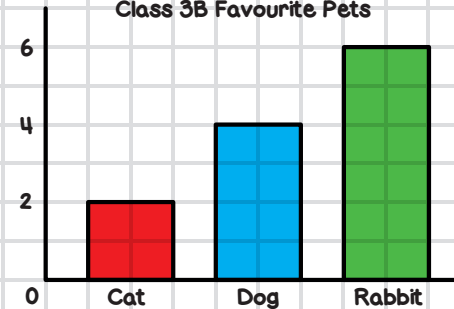
6



2 °C

9

Class 3B Favourite Pets

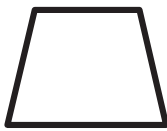


How many chose cats?

2

3

Tick the octagon



10

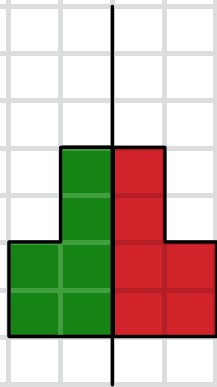
10 = 6 + 4



MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

1



Reflect this shape in the line of symmetry

4

Name this 3D shape

**Cuboid**



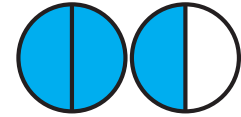
How many?

Faces 6 Edges 12

Vertices 8

7

Write as a mixed number



**$1 \frac{1}{2}$**

8

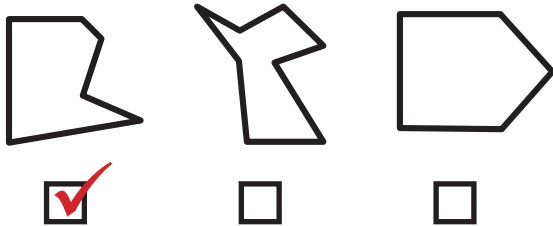
Write as a mixed number and an improper fraction



**$4 \frac{1}{2} = \frac{9}{2}$**

2

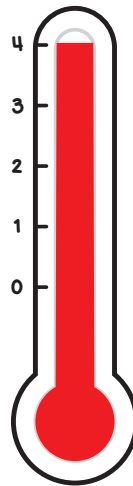
Tick the hexagon



5

476p = £ 4 and 76 p

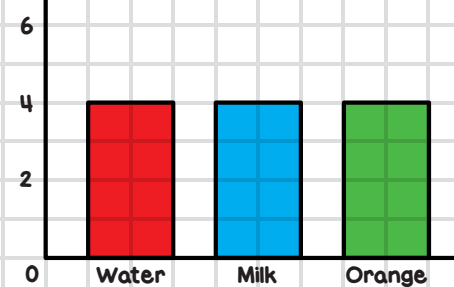
6



4 °C

9

Class 1C Favourite Drinks

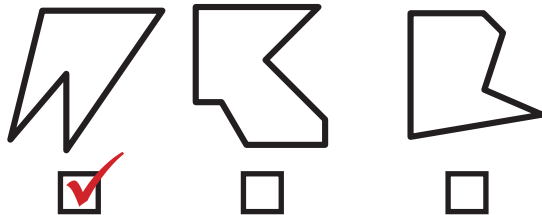


How many like milk?

**4**

3

Tick the pentagon



10

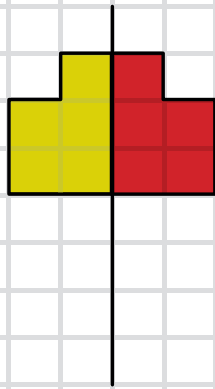
**10 = 1 + 9**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1

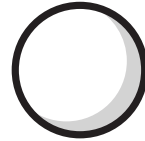


Reflect this shape in the line of symmetry

4

Name this 3D shape

**Sphere**



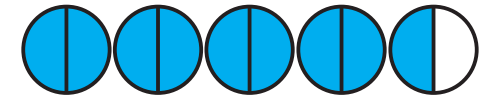
How many?

Faces 1 Edges 0

Vertices 0

7

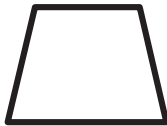
Write as a mixed number



**4  $\frac{1}{2}$**

2

Tick the hexagon

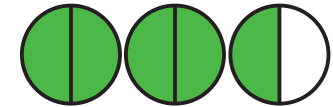


5

113p = £ 1 and 13 p

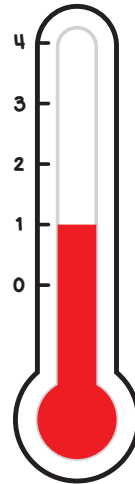
8

Write as a mixed number and an improper fraction



**2  $\frac{1}{2}$  =  $\frac{5}{2}$**

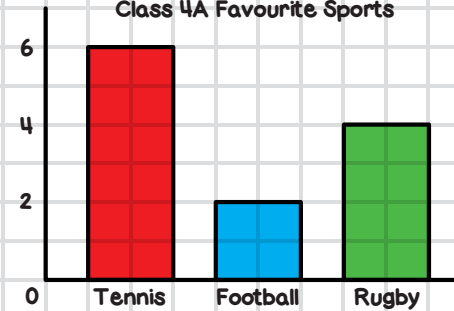
6



1 °C

9

Class 4A Favourite Sports



How many like tennis?

**6**

3

Tick the octagon



10

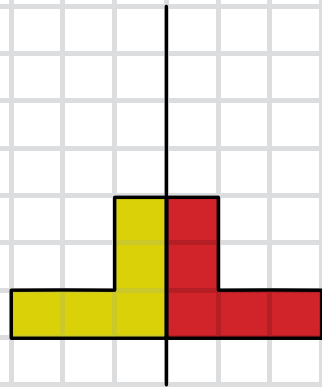
**10 = 7 + 3**

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1



Reflect this shape in the line of symmetry

4

Name this 3D shape

**Cylinder**



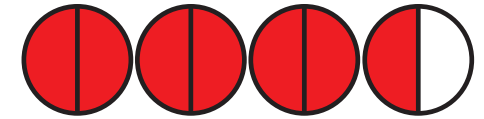
How many?

Faces 3 Edges 2

Vertices 0

7

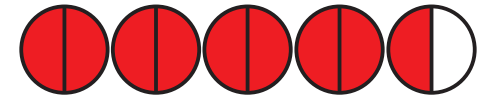
Write as a mixed number



**$3 \frac{1}{2}$**

8

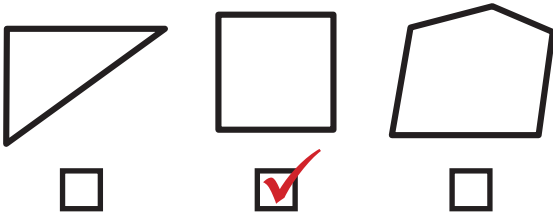
Write as a mixed number and an improper fraction



**$4 \frac{1}{2} = \frac{9}{2}$**

2

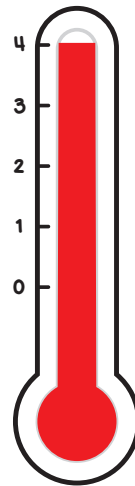
Tick the quadrilateral



5

543p = £ 5 and 43 p

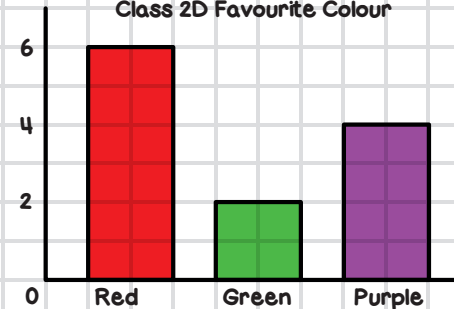
6



4 °C

9

Class 2D Favourite Colour

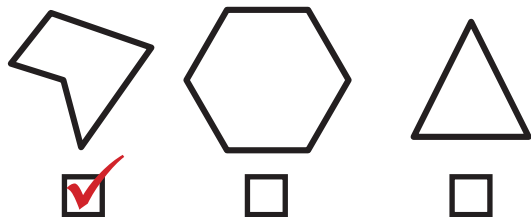


How many like purple?

**4**

3

Tick the pentagon



10

**$10 = 1 + 9$**

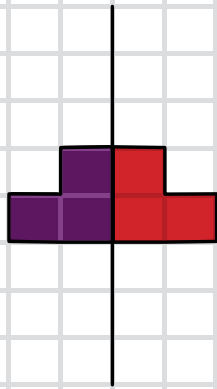
MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....





1



Reflect this shape in the line of symmetry

4

Name this 3D shape

**Cone**



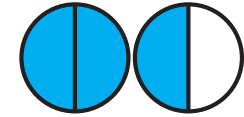
How many?

Faces 2 Edges 1

Vertices 1

7

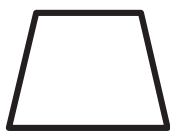
Write as a mixed number



**1  $\frac{1}{2}$**

2

Tick the quadrilateral

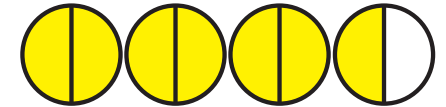


5

321p = £ 3 and 21 p

8

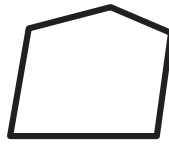
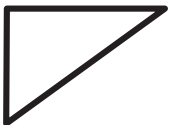
Write as a mixed number and an improper fraction



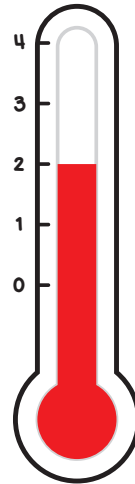
**3  $\frac{1}{2}$  =  $\frac{7}{2}$**

3

Tick the octagon



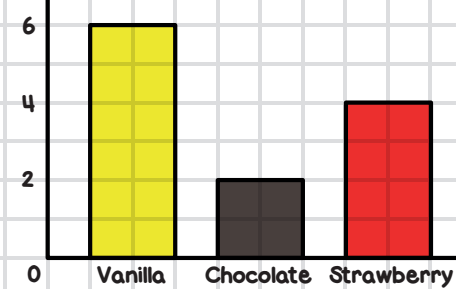
6



2 °C

9

Class 5E Favourite Ice Cream



How many like vanilla?

**6**

10

10 = 4 + 6

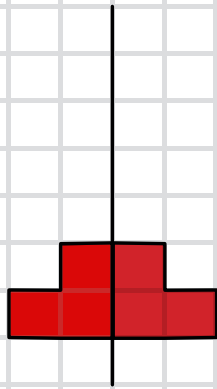


MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1

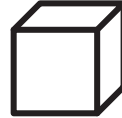


Reflect this shape in the line of symmetry

4

Name this 3D shape

**Cube**



How many?

Faces 6 Edges 12

Vertices 8

7

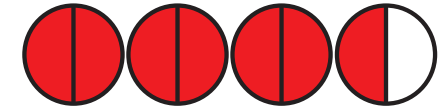
Write as a mixed number



**4  $\frac{1}{2}$**

8

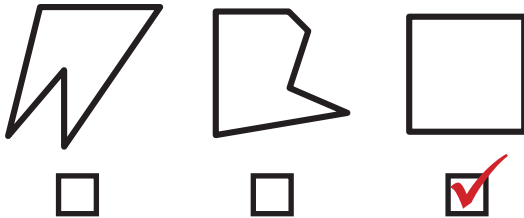
Write as a mixed number and an improper fraction



**3  $\frac{1}{2}$  =  $\frac{7}{2}$**

2

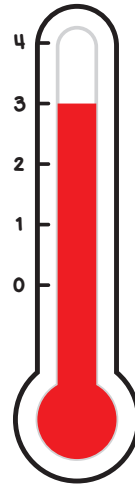
Tick the quadrilateral



5

277p = £ 2 and 77 p

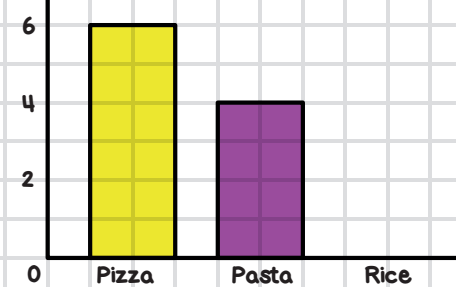
6



3 °C

9

Class 2C Favourite Foods

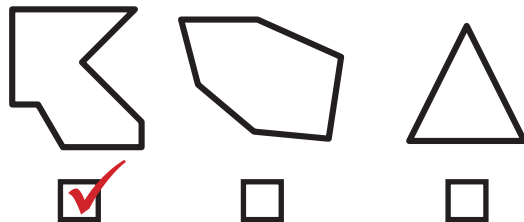


How many like pasta?

**4**

3

Tick the octagon



10

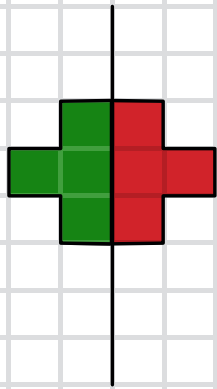
10 = 1 + 9

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1



Reflect this shape in the line of symmetry

4

Name this 3D shape Cuboid



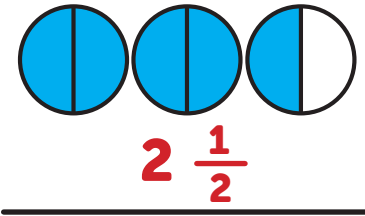
How many?

Faces 6 Edges 12

Vertices 8

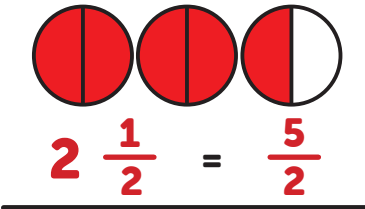
7

Write as a mixed number



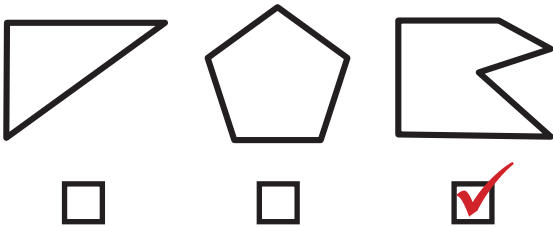
8

Write as a mixed number and an improper fraction



2

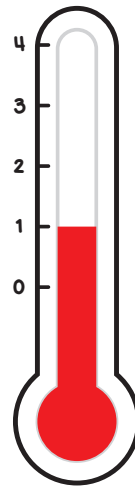
Tick the hexagon



5

451p = £ 4 and 51 p

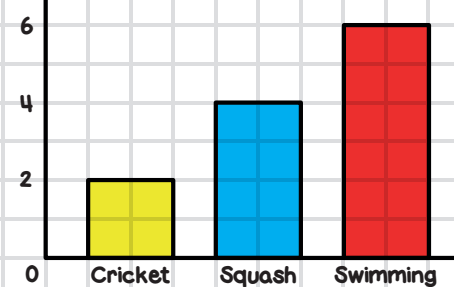
6



1 °C

9

Class 1D Favourite Sports



How many play cricket?

2

3

Tick the pentagon



10

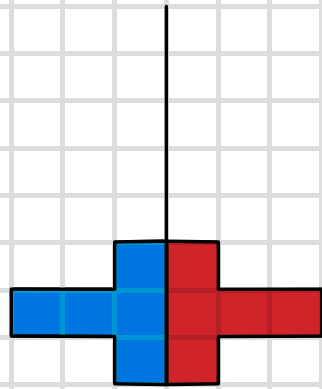
$10 = 7 + 3$

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1

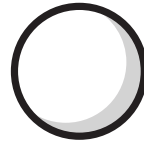


Reflect this shape in the line of symmetry

4

Name this 3D shape

**Sphere**



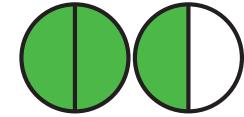
How many?

Faces 1 Edges 0

Vertices 0

7

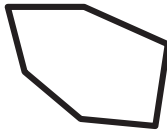
Write as a mixed number



**1  $\frac{1}{2}$**

2

Tick the hexagon

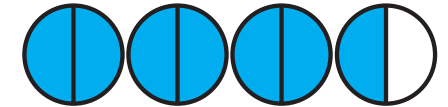


5

174p = £ 1 and 74 p

8

Write as a mixed number and an improper fraction



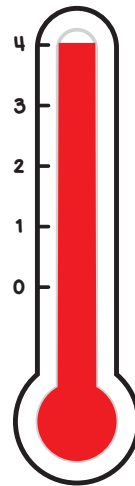
**3  $\frac{1}{2}$  =  $\frac{7}{2}$**

3

Tick the pentagon



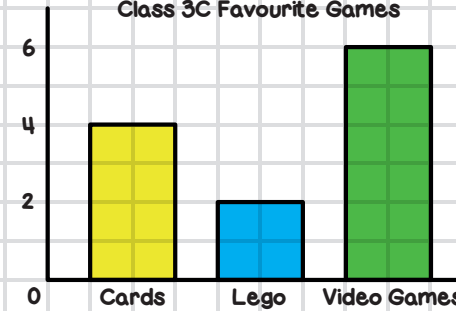
6



4 °C

9

Class 3C Favourite Games



How many play cards?

**4**

10

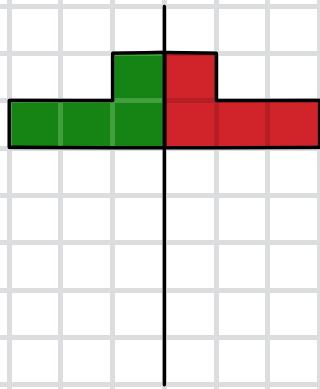
10 = 7 + 3

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....



1



Reflect this shape in the line of symmetry

4

Name this 3D shape

**Cuboid**



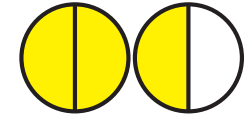
How many?

Faces 6 Edges 12

Vertices 8

7

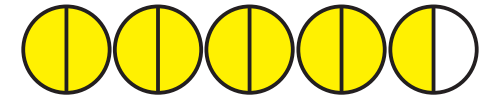
Write as a mixed number



$1 \frac{1}{2}$

8

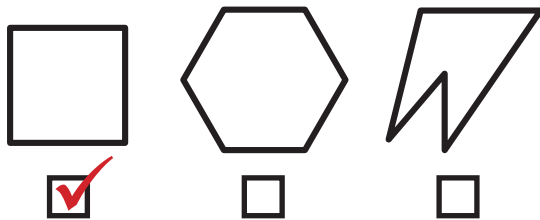
Write as a mixed number and an improper fraction



$4 \frac{1}{2} = \frac{9}{2}$

2

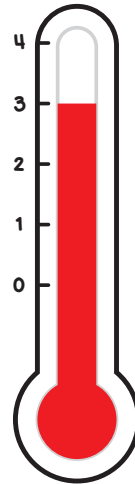
Tick the quadrilateral



5

576p = £ 5 and 76 p

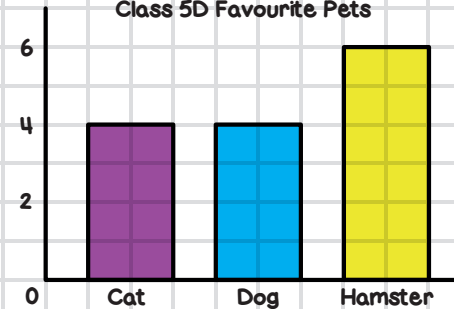
6



3 °C

9

Class 5D Favourite Pets



How many like cats?

4

3

Tick the octagon



10

10 = 9 + 1

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

