

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'

NAME:

CLASS:

DATE:

SAFE 8

WK:1

/10

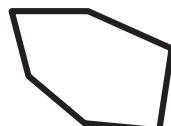
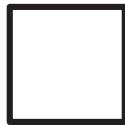
1



Reflect this shape in the line of symmetry

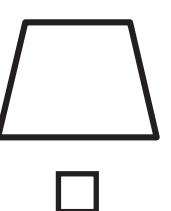
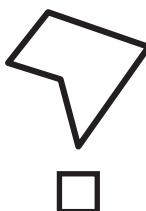
2

Tick the hexagon



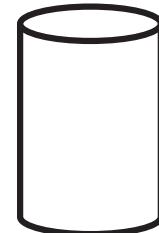
3

Tick the pentagon



4

Name this 3D shape _____



How many?

Faces _____

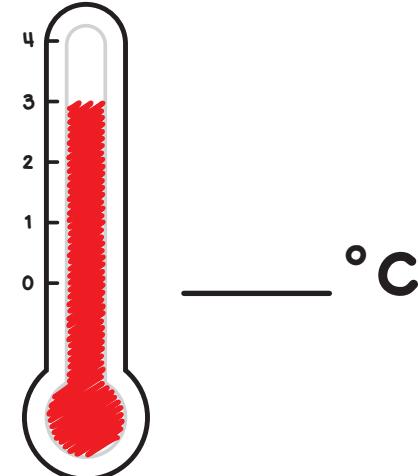
Edges _____

Vertices _____

5

$$136p = f \underline{\hspace{1cm}} \text{ and } \underline{\hspace{1cm}} p$$

6



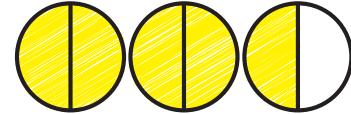
SAFE 8

WK:1

/10

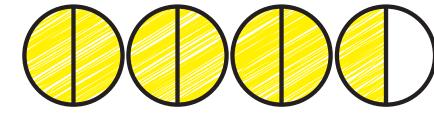
7

Write as a mixed number



8

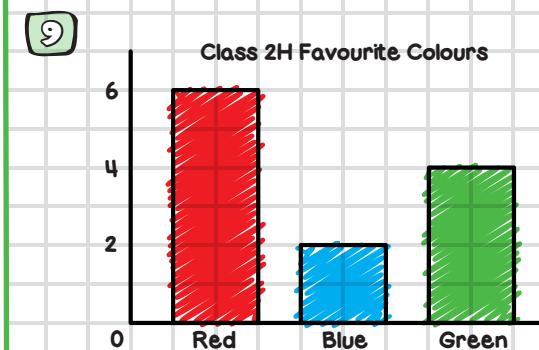
Write as a mixed number and an improper fraction



= _____

9

Class 2H Favourite Colours



How many chose red?

10

$$10 = 2 + \underline{\hspace{1cm}}$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

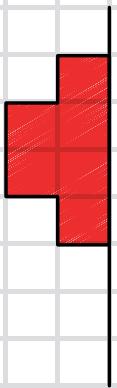
DATE:

SAFE 8

WK: 2

/10

1



Reflect this shape in the line of symmetry

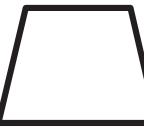
2

Tick the quadrilateral



3

Tick the octagon



4

Name this 3D shape _____



How many?

Faces _____

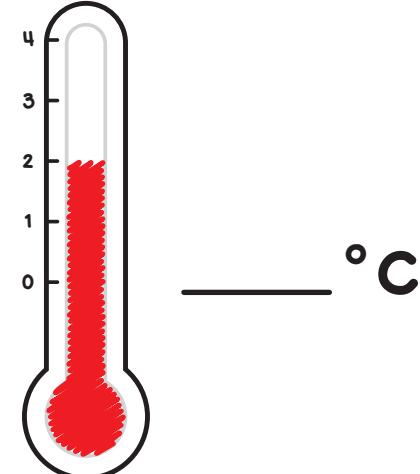
Edges _____

Vertices _____

5

$231p = f \underline{\hspace{1cm}}$ and $\underline{\hspace{1cm}} p$

6

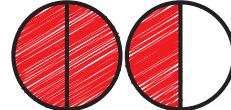


MY LAST SCORE?!

HAVE I BEAT THAT?!

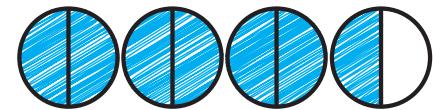
7

Write as a mixed number



8

Write as a mixed number and an improper fraction

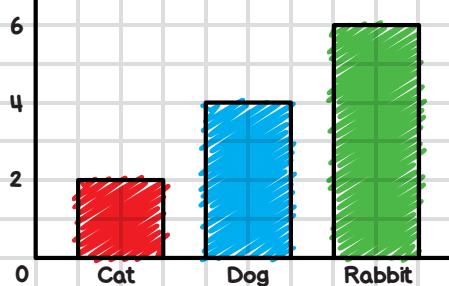


= _____

How many chose dogs?

Class 3B Favourite Pets

9



10

$\underline{\hspace{1cm}} = 6 + 4$

NAME:

CLASS:

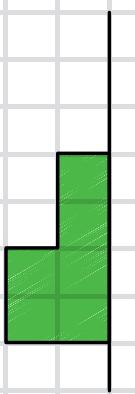
DATE:

SAFE 8

WK: 3

/10

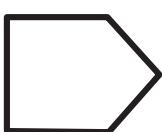
1



Reflect this shape in the line of symmetry

2

Tick the hexagon



3

Tick the pentagon



4

Name this 3D shape _____



How many?

Faces _____

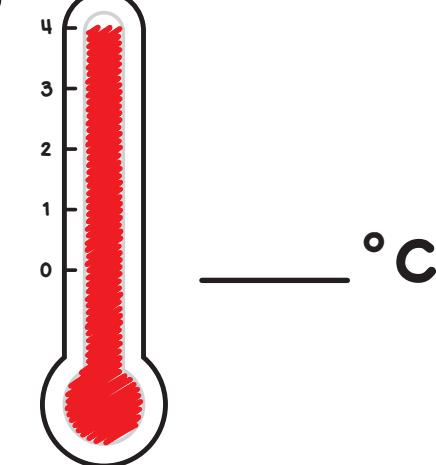
Edges _____

Vertices _____

5

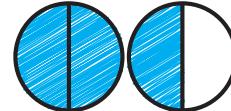
$$476p = f \underline{\hspace{1cm}} \text{ and } \underline{\hspace{1cm}} p$$

6



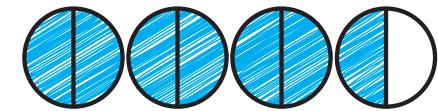
7

Write as a mixed number



8

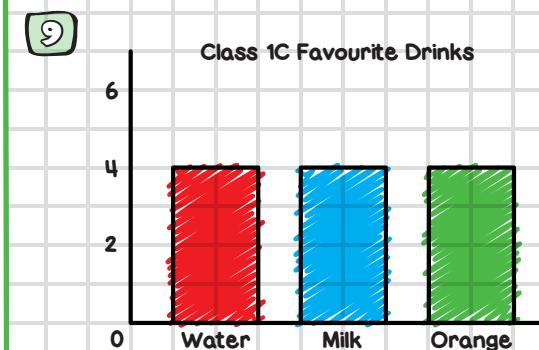
Write as a mixed number and an improper fraction



= _____

9

Class 1C Favourite Drinks



How many like milk?

$$\underline{\hspace{1cm}} = 1 + 9$$

10



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

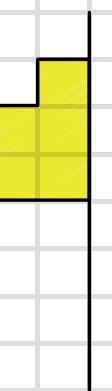
DATE:

SAFE 8

WK:4

/10

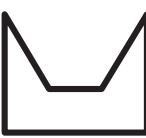
1



Reflect this shape in the line of symmetry

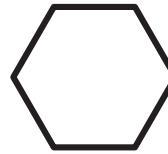
2

Tick the hexagon



3

Tick the octagon



4

Name this 3D shape _____



How many?

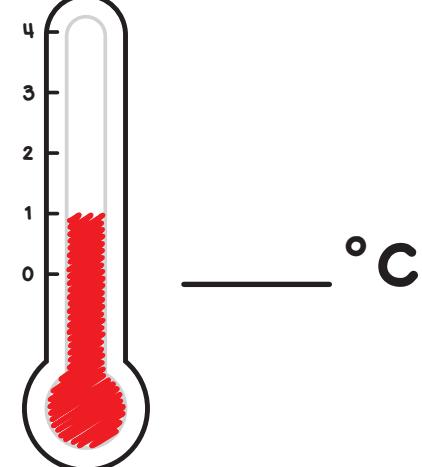
Faces _____ Edges _____

Vertices _____

5

$113p = f \underline{\hspace{1cm}}$ and $\underline{\hspace{1cm}} p$

6



7

Write as a mixed number



8

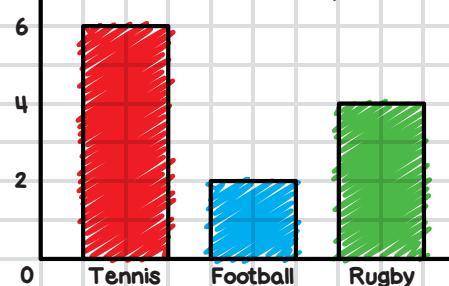
Write as a mixed number and an improper fraction



= _____

9

Class 4A Favourite Sports



How many like tennis?

$$10 = 7 + \underline{\hspace{1cm}}$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

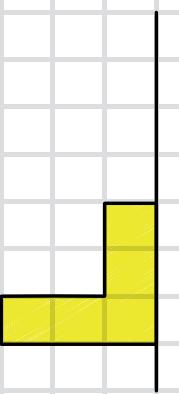
DATE:

SAFE 8

WK:5

/10

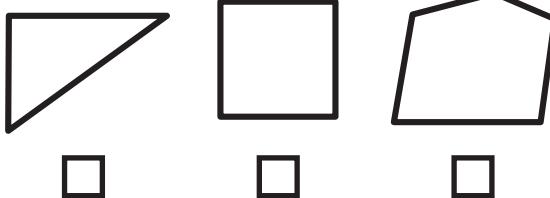
1



Reflect this shape in the line of symmetry

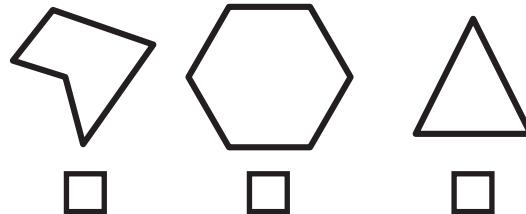
2

Tick the quadrilateral



3

Tick the pentagon



4

Name this 3D shape _____



How many?

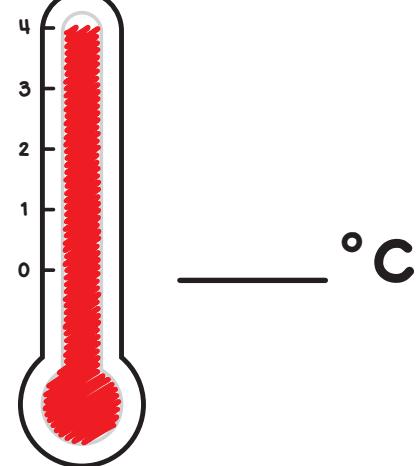
Faces _____ Edges _____

Vertices _____

5

$543p = f \underline{\hspace{1cm}}$ and $\underline{\hspace{1cm}} p$

6



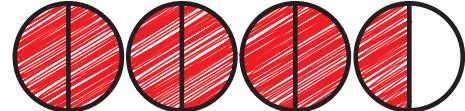
SAFE 8

WK:5

/10

7

Write as a mixed number



8

Write as a mixed number and an improper fraction

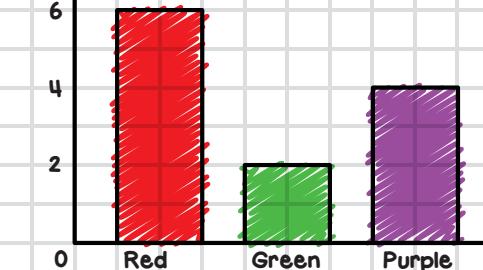


9

Class 2D Favourite Colour

10

How many like purple?



$$10 = 1 + \underline{\hspace{1cm}}$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

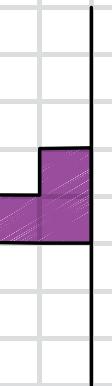
DATE:

SAFE 8

WK: 6

/10

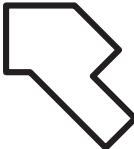
1



Reflect this shape in the line of symmetry

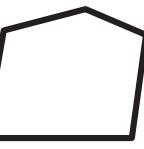
2

Tick the quadrilateral



3

Tick the octagon



4

Name this 3D shape _____



How many?

Faces _____

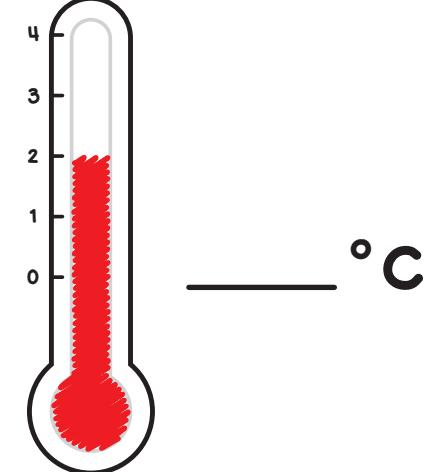
Edges _____

Vertices _____

5

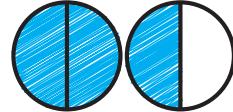
$321p = f \underline{\hspace{1cm}}$ and $\underline{\hspace{1cm}} p$

6



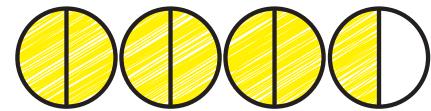
7

Write as a mixed number



8

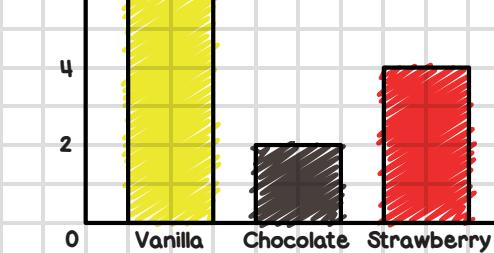
Write as a mixed number and an improper fraction



Class 5E Favourite Ice Cream

How many like vanilla?

9



$= 4 + 6$



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

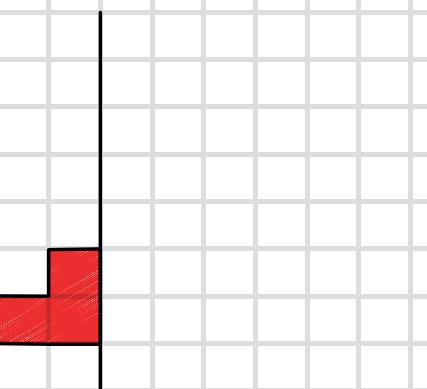
DATE:

SAFE 8

WK: 7

/10

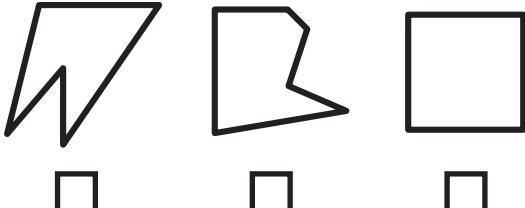
1



Reflect this shape in the line of symmetry

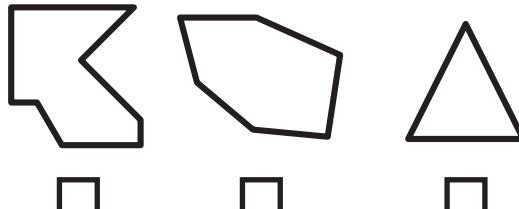
2

Tick the quadrilateral



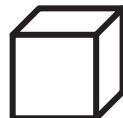
3

Tick the octagon



4

Name this 3D shape _____



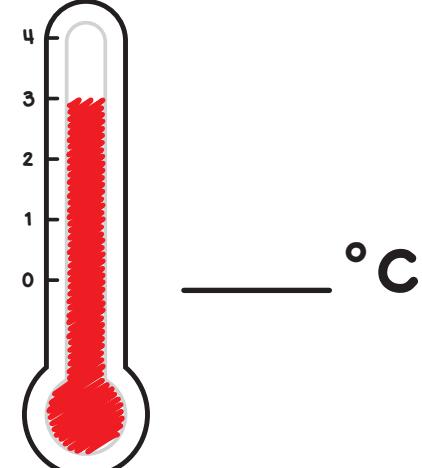
Faces _____ Edges _____

Vertices _____

5

$277p = f \underline{\hspace{1cm}}$ and $\underline{\hspace{1cm}} p$

6



SAFE 8

WK: 7

/10

7

Write as a mixed number



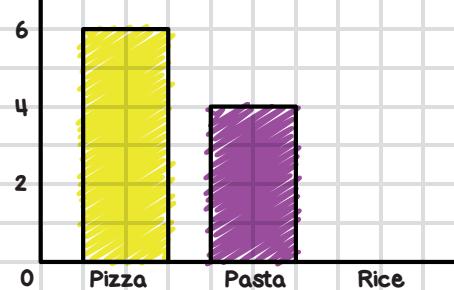
8

Write as a mixed number and an improper fraction



9

Class 2C Favourite Foods



How many like pasta?

10

$\underline{\hspace{1cm}} = 1 + 9$



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

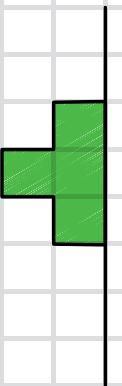
DATE:

SAFE 8

WK: 8

/10

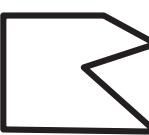
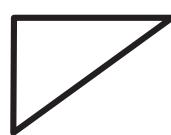
1



Reflect this shape in the line of symmetry

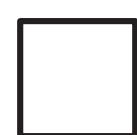
2

Tick the hexagon



3

Tick the pentagon



4

Name this 3D shape



How many?

Faces

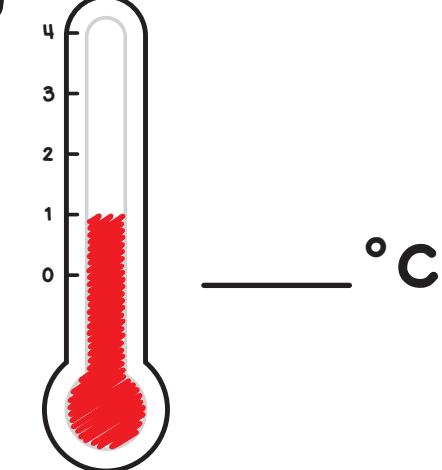
Edges

Vertices

5

$451p = f \underline{\hspace{1cm}}$ and $\underline{\hspace{1cm}} p$

6



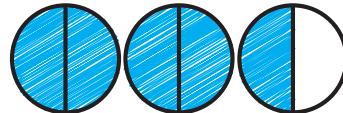
SAFE 8

WK: 8

/10

7

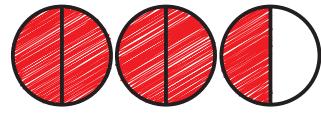
Write as a mixed number



$\underline{\hspace{1cm}}$

8

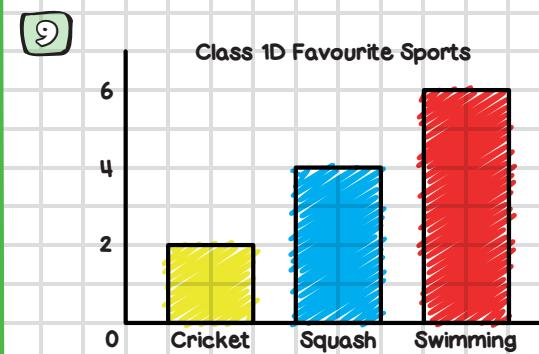
Write as a mixed number and an improper fraction



$= \underline{\hspace{1cm}}$

How many play cricket?

Class 1D Favourite Sports



10

$10 = 7 + \underline{\hspace{1cm}}$



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

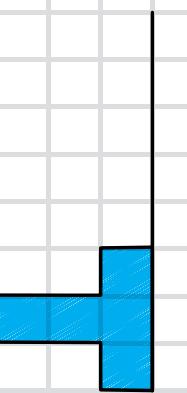
DATE:

SAFE 8

WK:9

/10

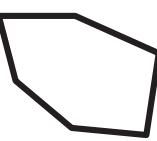
1



Reflect this shape in the line of symmetry

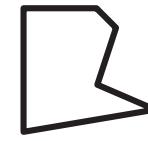
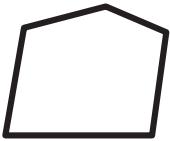
2

Tick the hexagon



3

Tick the pentagon



4

Name this 3D shape _____



How many?

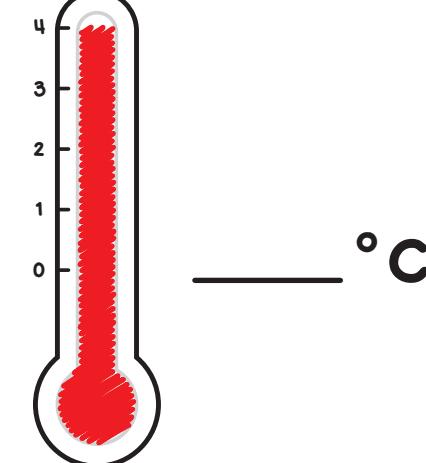
Faces _____ Edges _____

Vertices _____

5

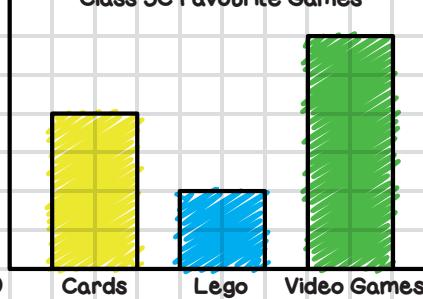
$174p = f \underline{\hspace{1cm}} \text{ and } \underline{\hspace{1cm}} p$

6



Class 3C Favourite Games

7

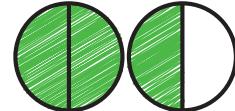


How many play cards?

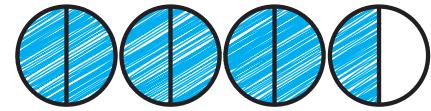
$$= 7 + 3$$

8

Write as a mixed number



Write as a mixed number and an improper fraction



= _____



MY LAST SCORE?!

HAVE I BEAT THAT?!

NAME:

CLASS:

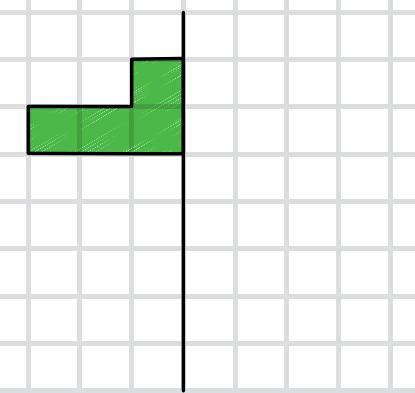
DATE:

SAFE 8

WK: 10

/10

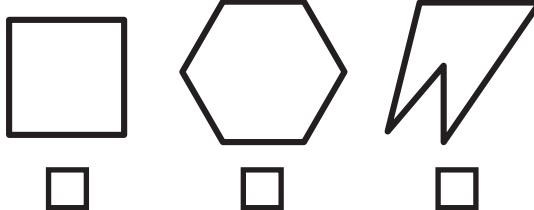
1



Reflect this shape in the line of symmetry

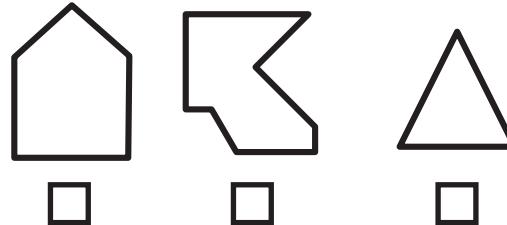
2

Tick the quadrilateral



3

Tick the octagon



4

Name this 3D shape _____



How many?

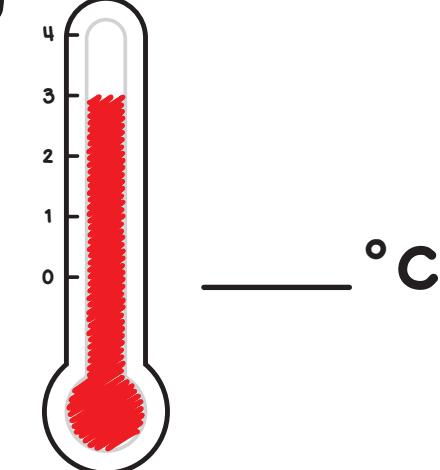
Faces _____ Edges _____

Vertices _____

5

$576p = f \underline{\hspace{1cm}}$ and $\underline{\hspace{1cm}} p$

6



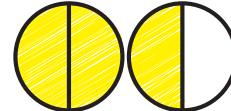
SAFE 8

WK: 10

/10

7

Write as a mixed number



8

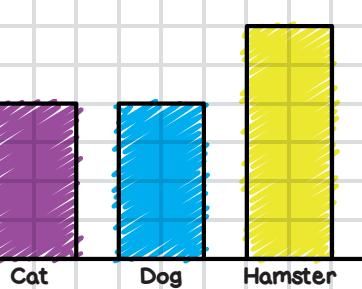
Write as a mixed number and an improper fraction



= _____

9

Class 5D Favourite Pets



How many have dogs?

$= 9 + 1$

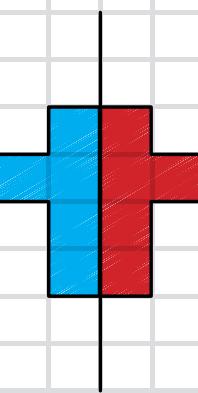
10



MY LAST SCORE?!

HAVE I BEAT THAT?!

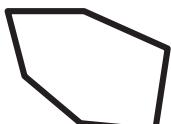
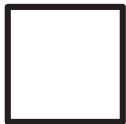
1



Reflect this shape in the line of symmetry

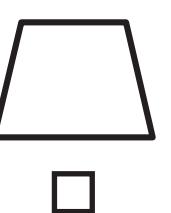
2

Tick the hexagon



3

Tick the pentagon



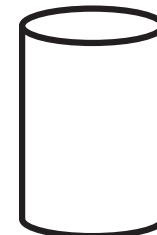
MY LAST SCORE?!

HAVE I BEAT THAT?!



4

Name this 3D shape



Cylinder

How many?

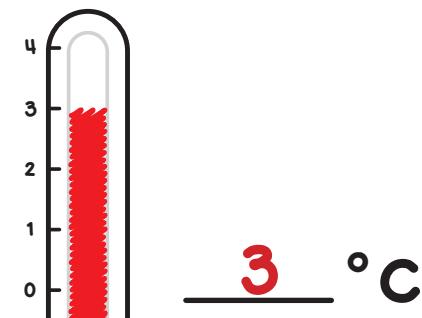
Faces 3 Edges 2

Vertices 0

5

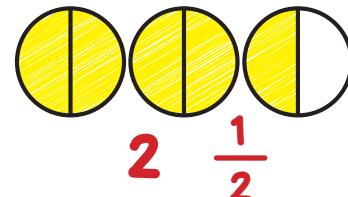
$136p = f \underline{1}$ and $\underline{36} p$

6



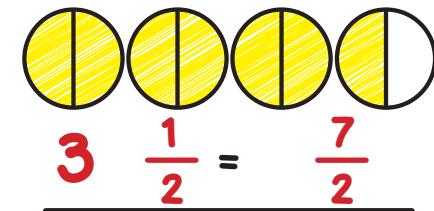
7

Write as a mixed number



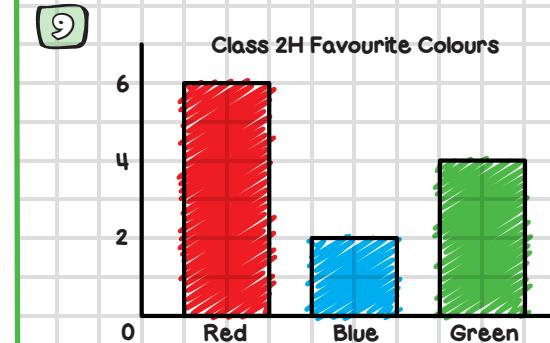
8

Write as a mixed number and an improper fraction



9

Class 2H Favourite Colours

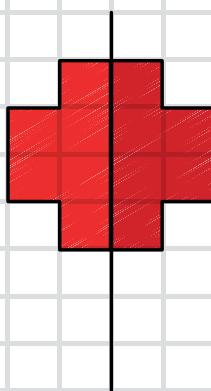


3

10

$10 = 2 + \underline{8}$

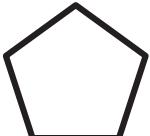
1



Reflect this shape in the line of symmetry

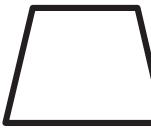
2

Tick the quadrilateral



3

Tick the octagon



4

Name this 3D shape

Cone



How many?

Faces 2

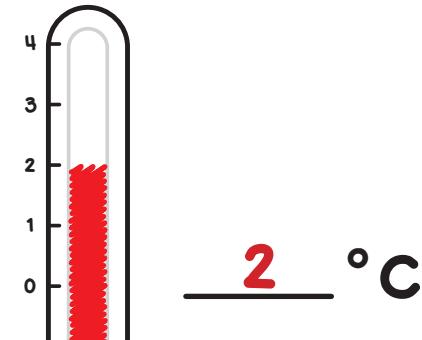
Edges 1

Vertices 1

5

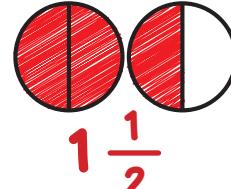
$231p = f \underline{2} \text{ and } \underline{31} p$

6



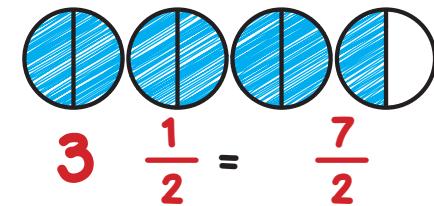
7

Write as a mixed number



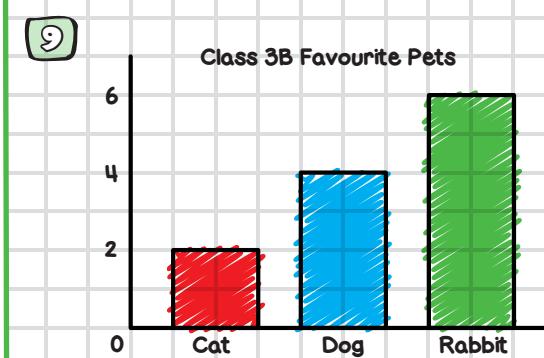
8

Write as a mixed number and an improper fraction



9

Class 3B Favourite Pets



How many chose dogs?

2

10

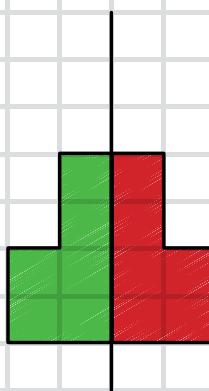
10 = $6 + 4$



MY LAST SCORE?!

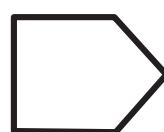
HAVE I BEAT THAT?!

1



Reflect this shape in the line of symmetry

2 Tick the hexagon



3 Tick the pentagon



4

Name this 3D shape

Cuboid



How many?

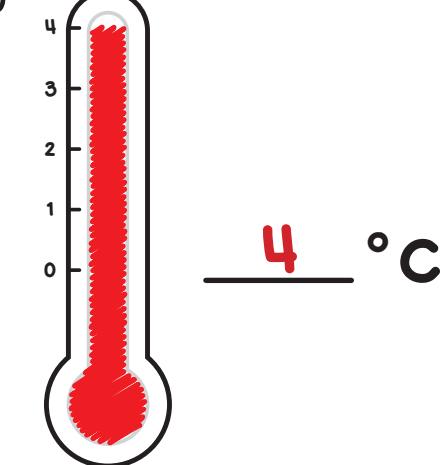
Faces 6 Edges 12

Vertices 8

5

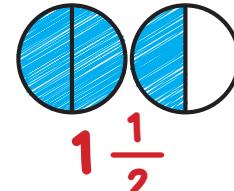
$476p = f \underline{4}$ and $\underline{76} p$

6



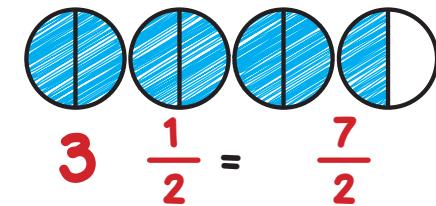
7

Write as a mixed number



8

Write as a mixed number and an improper fraction

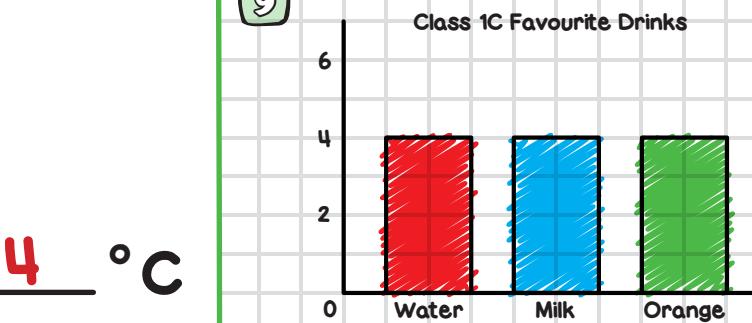


Class 1C Favourite Drinks

How many like milk?

2

9



10

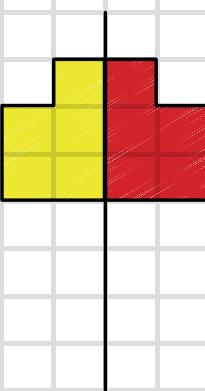
$$\underline{10} = 1 + 9$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

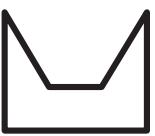
1



Reflect this shape in the line of symmetry

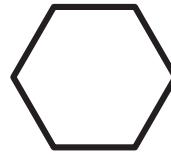
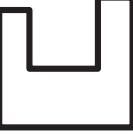
2

Tick the hexagon



3

Tick the octagon



4

Name this 3D shape

Sphere



How many?

Faces 0

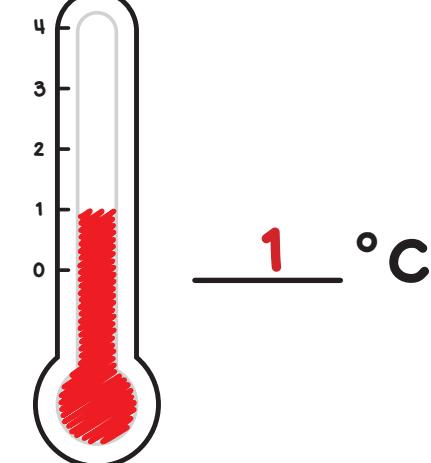
Edges 0

Vertices 0

5

$113p = f \underline{1} \text{ and } \underline{13} p$

6



7

Write as a mixed number



$4 \frac{1}{2}$

8

Write as a mixed number and an improper fraction



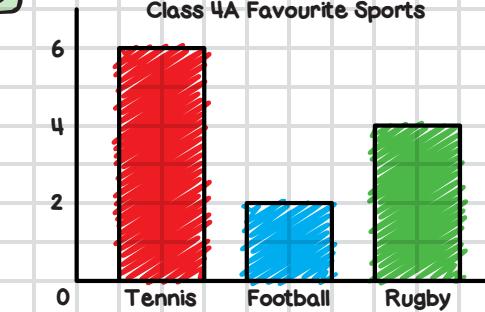
$2 \frac{1}{2} = \frac{5}{2}$

Class 4A Favourite Sports

How many like tennis?

3

9



10

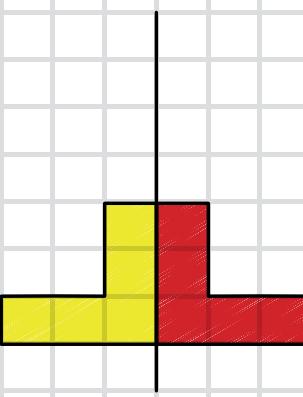
$10 = 7 + \underline{3}$



MY LAST SCORE?!

HAVE I BEAT THAT?!

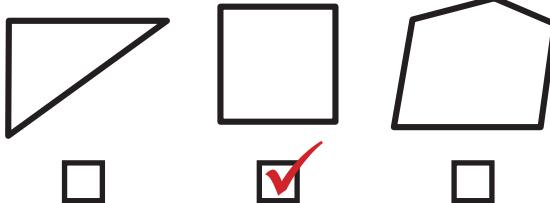
1



Reflect this shape in the line of symmetry

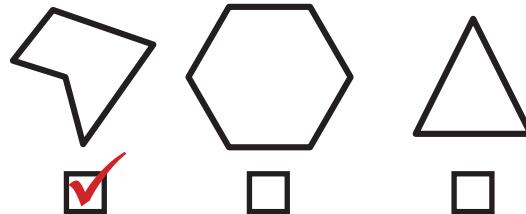
2

Tick the quadrilateral



3

Tick the pentagon



4

Name this 3D shape

Cylinder



How many?

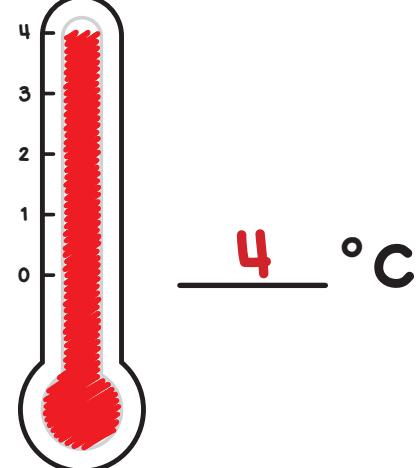
Faces 3 Edges 2

Vertices 0

5

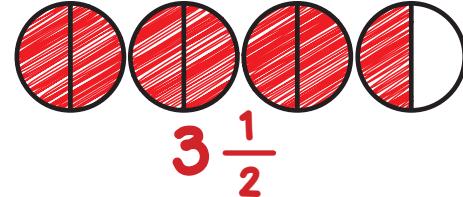
$543p = f \underline{5} \text{ and } \underline{43} p$

6



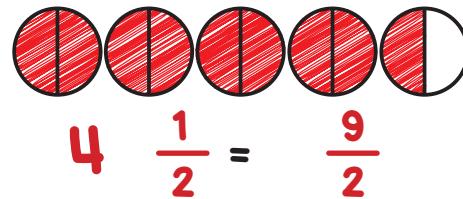
7

Write as a mixed number



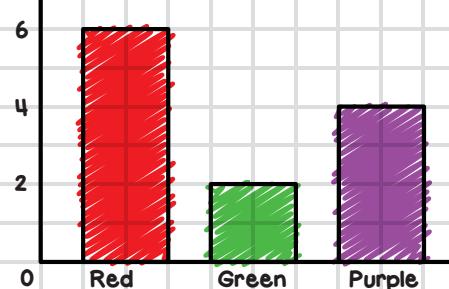
8

Write as a mixed number and an improper fraction



9

Class 2D Favourite Colour



How many like purple?

2

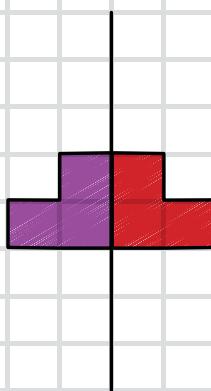
$10 = 1 + \underline{9}$



MY LAST SCORE?!

HAVE I BEAT THAT?!

1



Reflect this shape in the line of symmetry

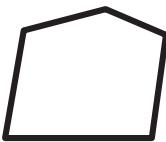
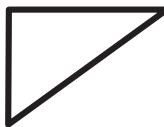
2

Tick the quadrilateral



3

Tick the octagon



4

Name this 3D shape

Cone



How many?

Faces 2

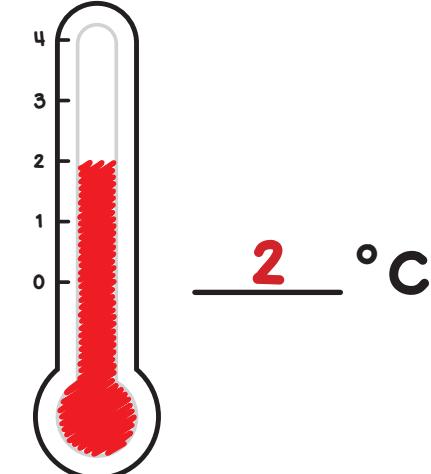
Edges 1

Vertices 1

5

$321p = f \underline{3} \text{ and } \underline{21} p$

6



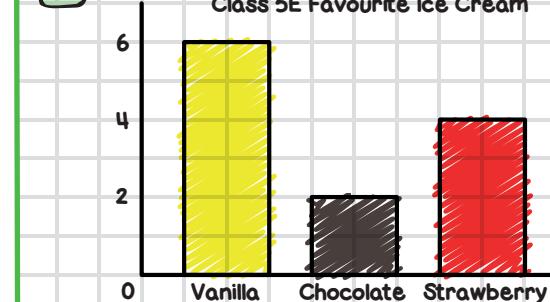
Class 5E Favourite Ice Cream

7

How many like vanilla?

3

8



9

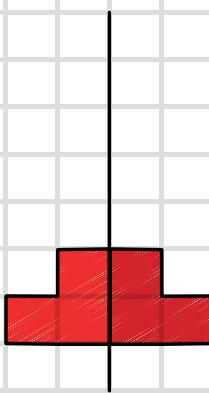
$$\underline{10} = 4 + 6$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

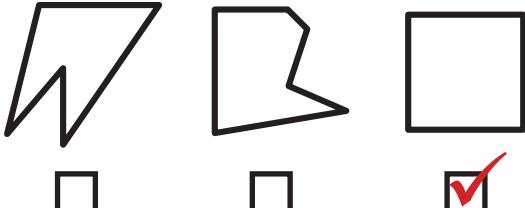
1



Reflect this shape in the line of symmetry

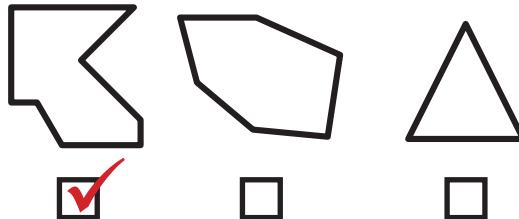
2

Tick the quadrilateral



3

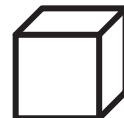
Tick the octagon



4

Name this 3D shape

Cube



How many?

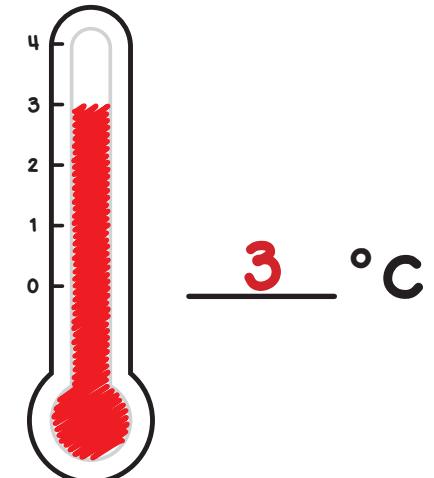
Faces 6 Edges 12

Vertices 8

5

$277p = f \underline{2}$ and $\underline{77} p$

6



7

Write as a mixed number



$4 \frac{1}{2}$

8

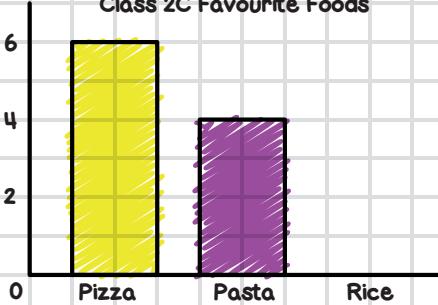
Write as a mixed number and an improper fraction



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

Class 2C Favourite Foods

9



How many like pasta?

2

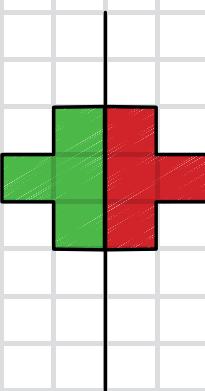
10 = $1 + 9$



MY LAST SCORE?!

HAVE I BEAT THAT?!

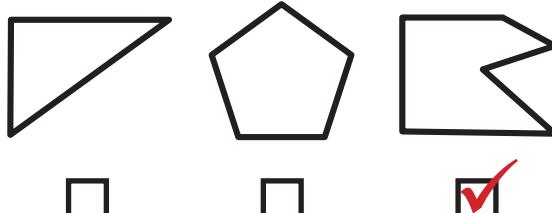
1



Reflect this shape in the line of symmetry

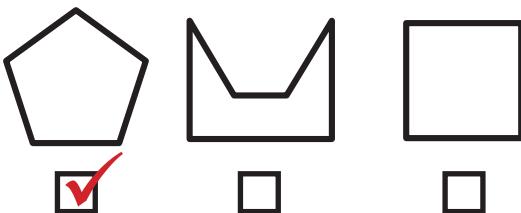
2

Tick the hexagon



3

Tick the pentagon



4

Name this 3D shape

Cuboid



How many?

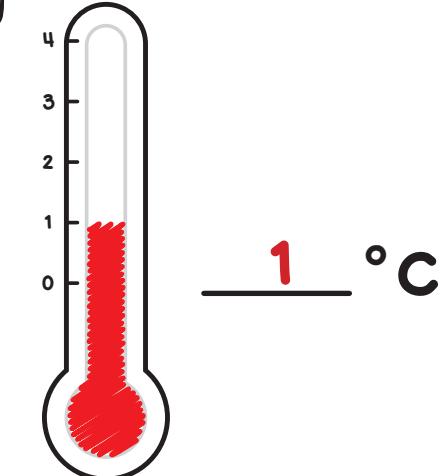
Faces 6 Edges 12

Vertices 8

5

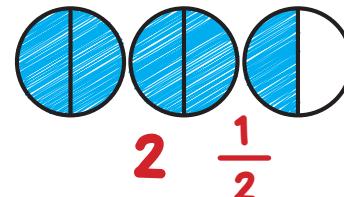
$451p = f \underline{4}$ and $\underline{51} p$

6



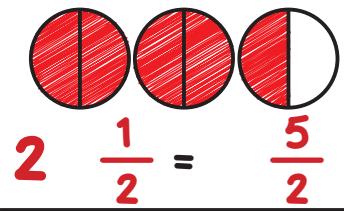
7

Write as a mixed number



8

Write as a mixed number and an improper fraction



9

Class 1D Favourite Sports



How many play cricket?

1

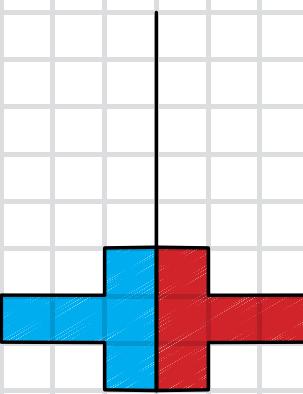
$$10 = 7 + \underline{3}$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

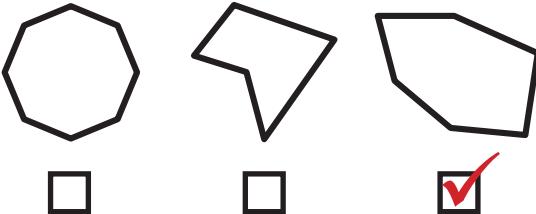
1



Reflect this shape in the line of symmetry

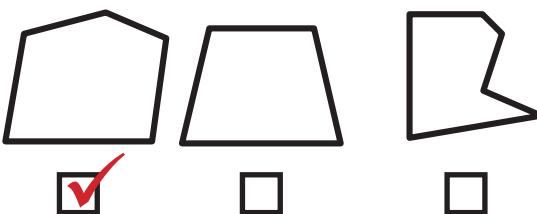
2

Tick the hexagon



3

Tick the pentagon



4

Name this 3D shape

Sphere

How many?

Faces 0 Edges 0

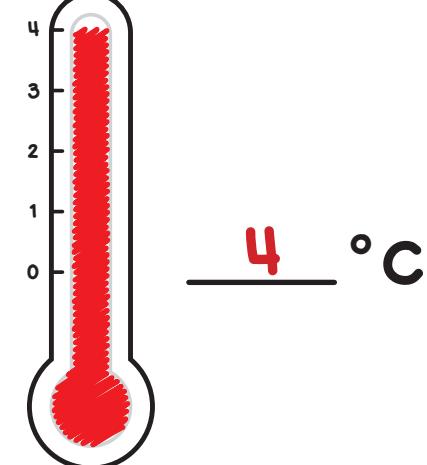


Vertices 0

5

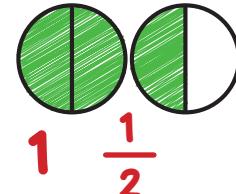
$174p = f \underline{1} \text{ and } \underline{74} p$

6



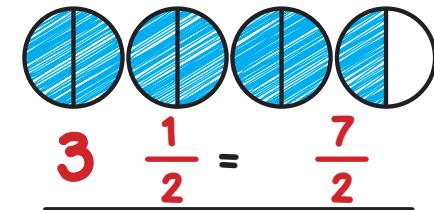
7

Write as a mixed number



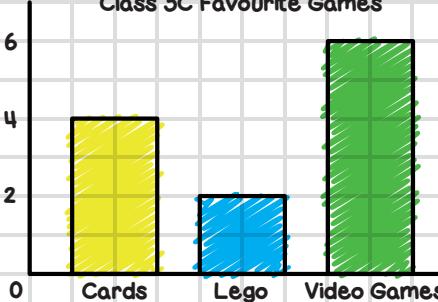
8

Write as a mixed number and an improper fraction



Class 3C Favourite Games

9



How many play cards?

2

10

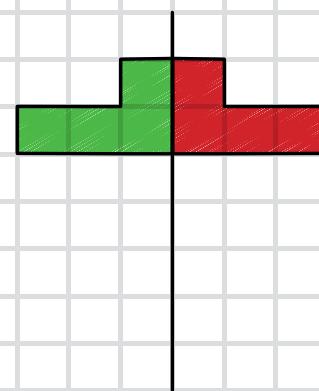
$$= 7 + 3$$



MY LAST SCORE?!

HAVE I BEAT THAT?!

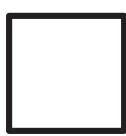
1



Reflect this shape in the line of symmetry

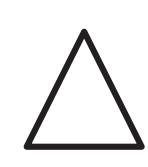
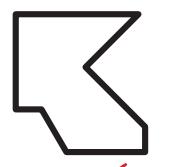
2

Tick the quadrilateral



3

Tick the octagon



4

Name this 3D shape

Cuboid



How many?

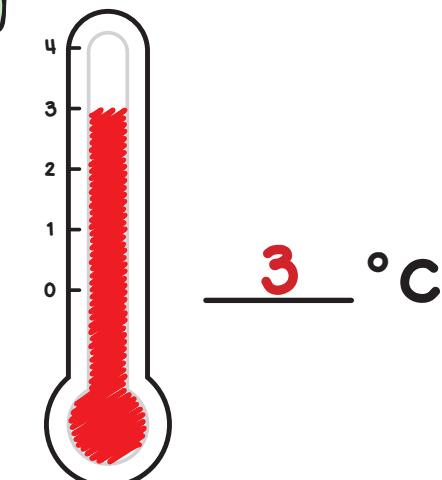
Faces 6 Edges 12

Vertices 8

5

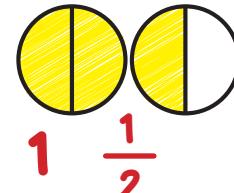
$576p = f \underline{5} \text{ and } \underline{76} p$

6



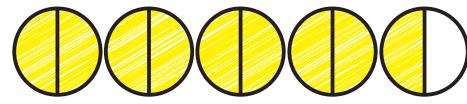
7

Write as a mixed number



8

Write as a mixed number and an improper fraction

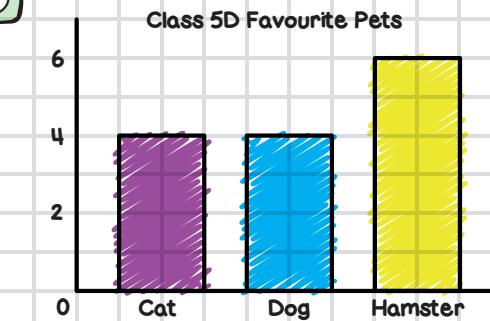


How many have dogs?

2

9

Class 5D Favourite Pets



10

10 = $9 + 1$



MY LAST SCORE?!

HAVE I BEAT THAT?!