

Hello!

Today's WALT is recognize and describe 3D shapes

You should work for 45 minutes to an hour on this lesson.

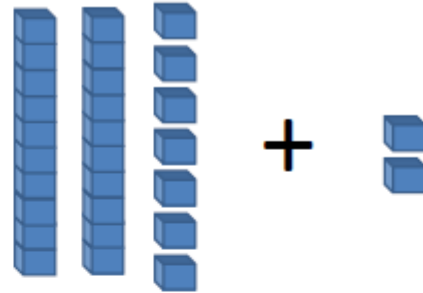
You don't need to print anything - just write on paper as if you were writing in your Maths book.

Remember to answer in full sentences.

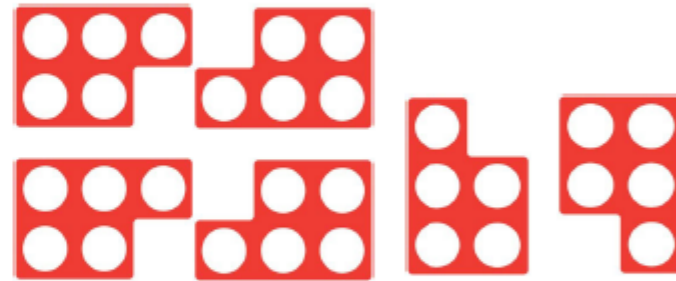


Mental Warm Up Work out the answers to these questions

A.  $27 + 2 =$



B. 30 divided by 5 =



C.  $8 + 9 =$

Use...



Counters

...to help you



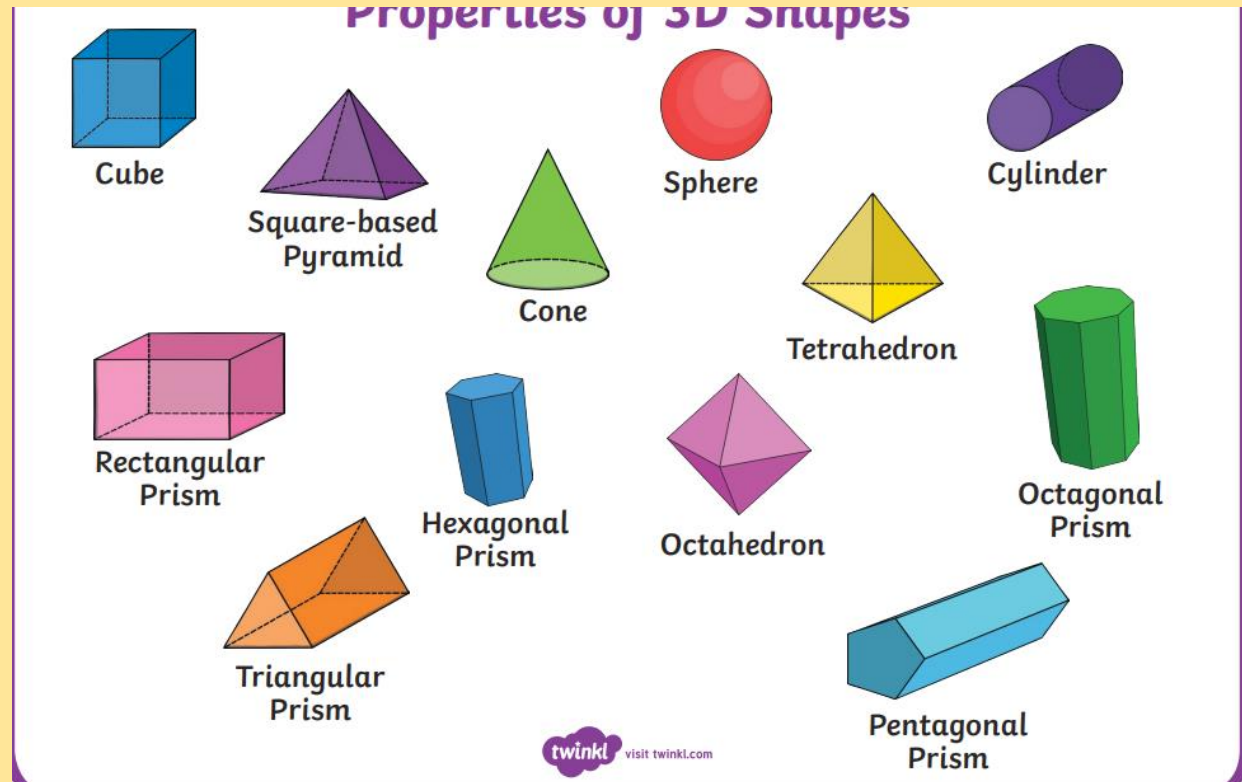
Let's answer this question together. You can go through it with your grown up.

Please go on this link and complete the quiz first and then watch the video link  
[Recognise and name 3-D shapes - Year 2 - P3 - Maths - Catch Up Lessons - Home Learning with BBC Bitesize - BBC Bitesize](#)

Key vocab: faces, vertices, 3D shapes

Complete Match the shape name activity.

Hint: name of shapes is on the word mat.



## Counting faces on 3D shapes

Discover



- 1** a) Ben paints every face of the box a different colour.  
How many colours will he need?
- b) Describe the shape of each face.

What is a face on a shape?

He will need \_\_\_\_\_

---

---

---

---

The box has \_\_\_\_\_

---

---





---

---

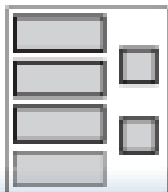
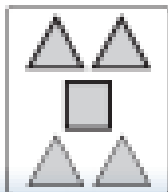
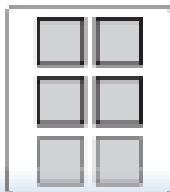
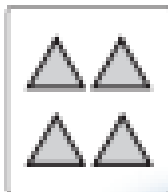
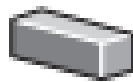


## Counting faces on 3D shapes

1 Complete the table.

| Shape   | Name    | Number of faces |
|---|---------|-----------------|
|  | _u_e    |                 |
|  | p_r_m_d |                 |
|  | cu_oi_  |                 |
|  | py_a_d  |                 |
|   | s_e_e   | 0               |

2 Match each 3D shape to its faces



3 Write the letters of the shapes each child could have.



I have three shapes. They are all the same. In total there are 18 faces.

I have three shapes. They are all the same. In total there are 12 faces.

I have three different shapes. In total there are 15 faces.



4 Complete each sentence.



hemisphere



sphere



cylinder



cone

A \_\_\_\_\_ has two circle faces and  curved surface.

A \_\_\_\_\_ has 0 faces and  curved surface.

A \_\_\_\_\_ and a \_\_\_\_\_ both have 1 circle face and 1 curved surface.



Work through these worksheets on your own.

### Think together

1 How many faces does each shape have?



2 Anna wants to make a square-based pyramid from construction materials.



I know that some pyramids have a square base and some have a triangular base.



How many square faces does she need?

How many triangular faces does she need?

How many faces will there be in total?

The \_\_\_\_\_ has \_\_\_\_\_

---

---

---

---

---

---

---

---

She needs

---

---

---

---

---

---

---

---



## Miss Khimasia's Maths group Extension Questions

Teddy says my 3-D shape has 6 faces.

Mo says he must have a cube.

Is Mo correct?

Explain your answer.

Mo is \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Sentence start: I know because.....**



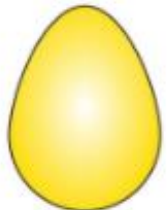
# Mr Hirani's group Extension Questions



3 How many faces does each shape have?  
What shapes are the faces?



A cone and a hemisphere have a circular face and a curved surface.



Does a sphere have a face? If I try to print using a sphere, I don't get a circle.



Remember, a face is a flat surface.



Write the answers under each shape e.g. 1 face



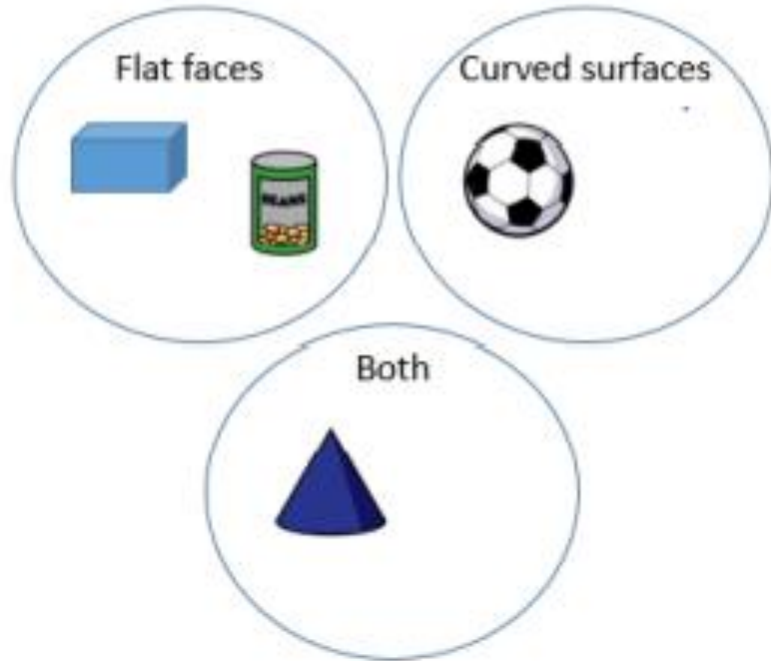


## Mr Hirani's group Extension Questions

Annie has sorted these 3-D shapes.

Can you spot her mistake?

Can you add another shape to each set?



Annie's mistake is



# Super Challenge

Unit 10 Properties of shapes, Lesson 8

5 a)



Ned puts five stickers on each face of this cube.

How many stickers does he need in total?

Ned needs  stickers.

b)



Sophie puts four stickers on each face of her shape.

She uses eight stickers in total.

Which shape did she use?

She used the \_\_\_\_\_.

## Reflect

Name a 3D shape.

Challenge your partner to tell you the shape of its faces.

Then ask your partner to challenge you in the same way.

