

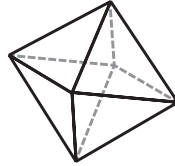
3D shapes – types and properties

4 You and a partner have 20 minutes to identify as many of these mystery 3D shapes as you can. Use whatever resources you have to assist you – maths dictionaries, websites, Mathletics or solid shapes. Different shapes are assigned different point values, so decide which answers you will spend the most time on! You can score a possible 150 points. At the end of the 20 minutes your answers will be checked and your scores tallied.

a I have 3 faces.
One of these is curved.
The other 2 faces are
2D circles.
These circles are parallel
to each other.
I'm a

5

b This is an example of me:



I'm an

20

c I have a square base and
4 triangular faces.
The triangular faces meet
together at one point.
I'm a

10

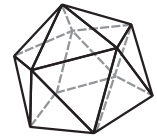
d I have 1 curved face, no
vertices and no edges.
I roll well.
I'm a

5

e I have two names.
One of these is hexahedron.
I have 6 faces, 8 vertices
and 12 edges.
Draw me.

10

f This is an
example
of me:



I have 20 faces, 12 vertices
and 30 edges.

I'm an

10

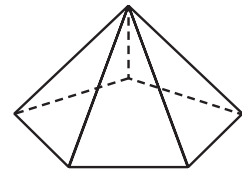
g I'm a Platonic solid.
This means all my faces,
angles, vertices and edges
are identical.
I have 4 faces.
I'm a

20

h I'm not a polyhedron.
I have a flat circular base
and 1 curved face.
I have 1 vertex.
I'm a

10

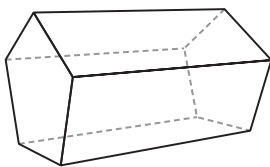
i This is an example of me:



I'm a

5

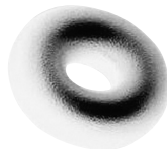
j This is an example of me:



I'm a

5

k This is an example of me:



What is my name (and it's
not donut)?

I'm a

50

Our total score:

Did any pairs in the class
score a perfect 150?