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# 12

# Geometry II

Write the names beside the solids. Then match the solids with the things that Jeffrey finds in his house. Write the letters.

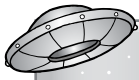
Cylinder    Pyramid    Cone    Rectangular prism    Cube    Sphere

①		_____	A		_____
②		_____	B		_____
③		_____	C		_____
④		_____	D		_____
⑤		_____	E		_____
⑥		_____	F		_____


Jeffrey puts the solids in order. Name the solid that comes next in each group.

⑦		_____
⑧		_____
⑨		_____


**Jeffrey is making a record of his solids. Help him complete the table and answer the questions.**







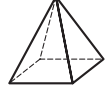

**Examples**

①  one of the flat faces of the pyramid

This pyramid has 5 flat faces. 4 of them are  $\triangle$ .

②  one of the corners of a rectangular prism

A rectangular prism has 8 corners.

							
⑩	Number of flat faces						
⑪	Number of corners						

⑫ How many  faces does a cube have? \_\_\_\_\_  faces

⑬ How many  faces does a cylinder have? \_\_\_\_\_  faces

⑭ How many  faces does a pyramid have? \_\_\_\_\_  faces

⑮ Which solid has 1  face? \_\_\_\_\_

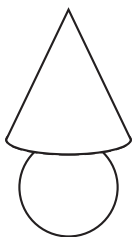
⑯ Which solid has 1  face? \_\_\_\_\_

⑰ Which can be stacked, cylinders or cones? \_\_\_\_\_

⑱ Which can roll, spheres or cubes? \_\_\_\_\_

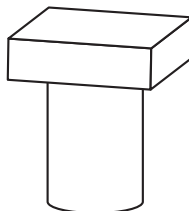
⑲ Can Jeffrey stack the solids as shown? Colour 'Yes' or 'No'.

a.



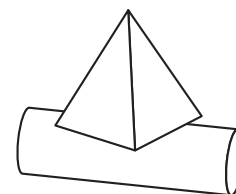
Yes
No

b.



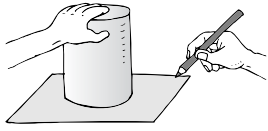
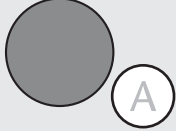

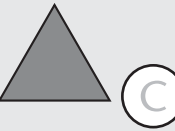

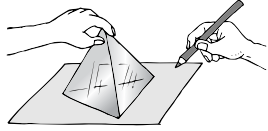
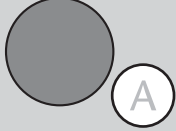

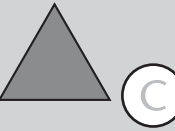

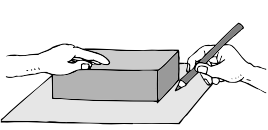
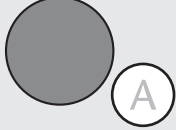

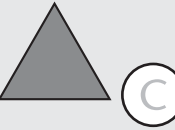

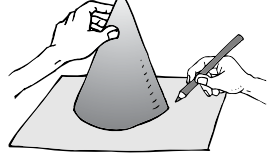
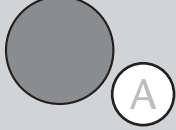
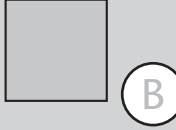
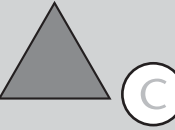

Yes
No

c.

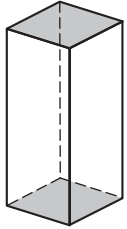
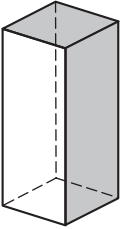
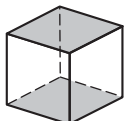
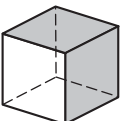
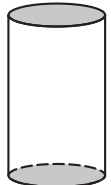
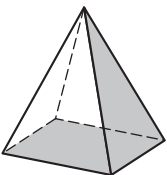


Yes
No

Jeffrey traced the solids. Check ✓ the correct shapes he traced.

<p>20</p> 	   
<p>21</p> 	   
<p>22</p> 	   
<p>23</p> 	   

Jeffrey traced the shaded 2 faces of each solid. Are these faces congruent to each other? Colour 'Yes' or 'No'.

<p>24</p>  <div data-bbox="432 1289 547 1435" style="border: 1px solid black; padding: 5px; text-align: center;">             Yes              No           </div>	<p>25</p>  <div data-bbox="879 1289 994 1435" style="border: 1px solid black; padding: 5px; text-align: center;">             Yes              No           </div>
<p>26</p>  <div data-bbox="432 1576 547 1722" style="border: 1px solid black; padding: 5px; text-align: center;">             Yes              No           </div>	<p>27</p>  <div data-bbox="879 1576 994 1722" style="border: 1px solid black; padding: 5px; text-align: center;">             Yes              No           </div>
<p>28</p>  <div data-bbox="432 1867 547 2013" style="border: 1px solid black; padding: 5px; text-align: center;">             Yes              No           </div>	<p>29</p>  <div data-bbox="879 1867 994 2013" style="border: 1px solid black; padding: 5px; text-align: center;">             Yes              No           </div>

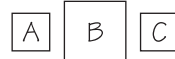


### Quick Tip

Two figures of the same size and shape are congruent to each other.

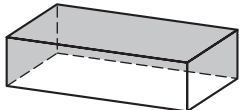
Two figures of the same shape but different sizes are similar to each other.

e.g.

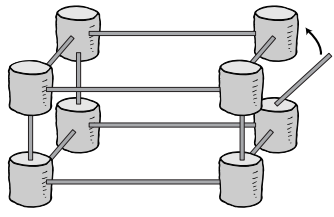
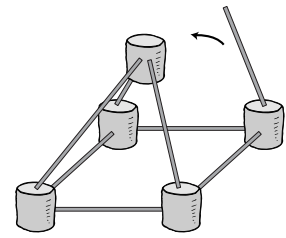
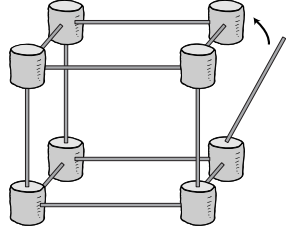
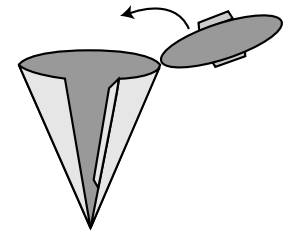

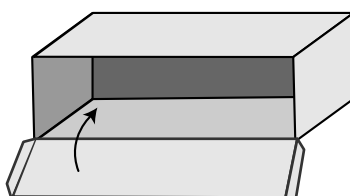


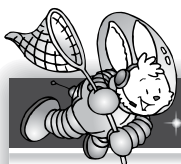
A and C are congruent to each other.

A and B or B and C are similar to each other.

<p>30</p> 	<div data-bbox="1329 1867 1444 2013" style="border: 1px solid black; padding: 5px; text-align: center;">             Yes              No           </div>
---	---

See how Jeffrey makes the solids. Name the solids for him.

<p>31</p>  <p>_____</p>	<p>32</p>  <p>_____</p>
<p>33</p>  <p>_____</p>	<p>34</p>  <p>_____</p>
<p>35</p>  <p>_____</p>	<p>36</p>  <p>_____</p>



## MIND BOGGLER

Jeffrey cuts the solids along the dotted lines and removes the smaller parts. Write the shapes of the cut faces of the larger parts.

