



# Essential Skills

Worksheet Set

*Patterning, Geometry & Data Management 1*

SKILLS COVERED:

*Patterning - Attributes*

*Patterning - 1 Attribute Change*

*Patterning - Descriptions*

*Geometry - Basic 2D Shape Naming*

*Geometry - Basic 2D Shape Properties*

*Geometry - Basic 3D Figure Naming*

*Geometry - Basic 3D Figure Properties*

*Data Management - Counting*

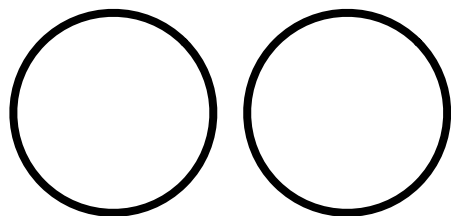
*Data Management - Sorting*

*Data Management - Surveying & Graphing*

[www.essentialskills.net](http://www.essentialskills.net)

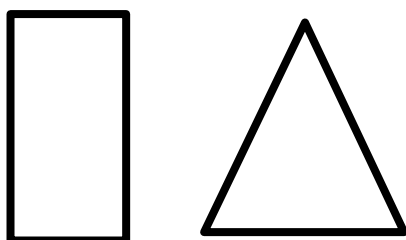
1.800.753.3727

Are the two shapes the same?



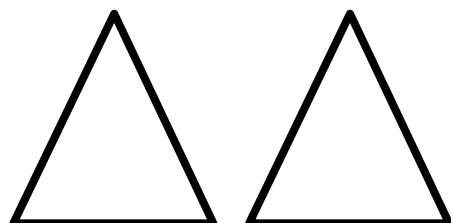
YES

NO



YES

NO



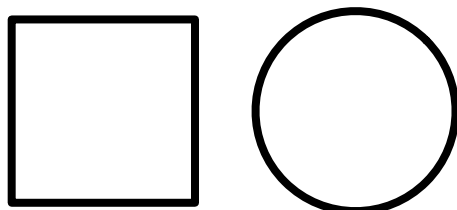
YES

NO



YES

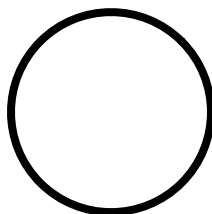
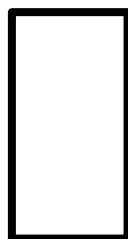
NO



YES

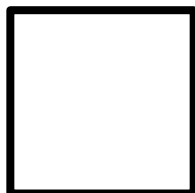
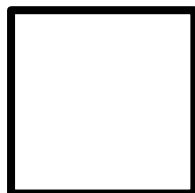
NO

Are the two shapes the same?



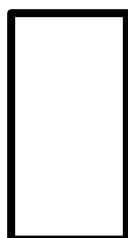
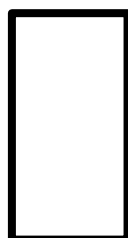
YES

NO



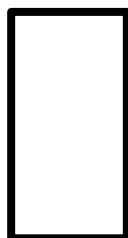
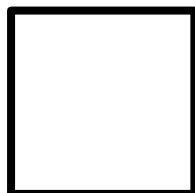
YES

NO



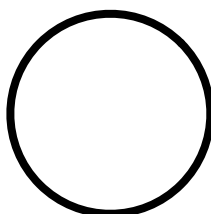
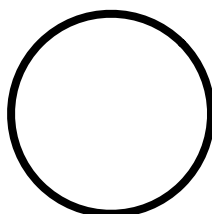
YES

NO



YES

NO



YES

NO



Are the letters the same letter or the same color?

**A** A

SAME LETTER

SAME COLOR

**A** **F**

SAME LETTER

SAME COLOR

**C** **D**

SAME LETTER

SAME COLOR

N **N**

SAME LETTER

SAME COLOR

**T** T

SAME LETTER

SAME COLOR

**D** **P**

SAME LETTER

SAME COLOR



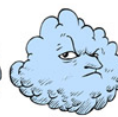
Look at the pattern. What comes next? A sun or a cloud?



SUN CLOUD



SUN CLOUD



SUN CLOUD



SUN CLOUD



SUN CLOUD



Which number comes next?

1, 2, 3, 4, 5...\_\_\_\_\_

5, 6, 7, 8, 9...\_\_\_\_\_

10, 9, 8, 7, 6...\_\_\_\_\_

3, 4, 5, 6, 7...\_\_\_\_\_

11, 12, 13, 14, 15...\_\_\_\_\_

16, 15, 14, 13, 12...\_\_\_\_\_

6, 5, 4, 3, 2...\_\_\_\_\_

7, 8, 9, 10, 11...\_\_\_\_\_

12, 13, 14, 15, 16...\_\_\_\_\_

11, 10, 9, 8, 7...\_\_\_\_\_

Match the patterns with their descriptions.

1, 2, 3, 4, 5

go up by 2

1, 3, 5, 7, 9

go down by 2

1, 4, 7, 10, 13

go down by 1

5, 4, 3, 2, 1

go up by 3

9, 7, 5, 4, 1

go up by 1

13, 10, 7, 4, 1

go down by 3

Do these number patterns go up or down?

2, 3, 4, 5, 6    UP    DOWN

10, 9, 8, 7, 6    UP    DOWN

2, 4, 6, 8, 10    UP    DOWN

4, 5, 6, 7, 8    UP    DOWN

12, 11, 10, 9, 8    UP    DOWN

3, 4, 5, 6, 7    UP    DOWN

9, 8, 7, 6, 5    UP    DOWN

10, 8, 6, 4, 2    UP    DOWN

15, 14, 13, 12, 11    UP    DOWN

8, 9, 10, 11, 12    UP    DOWN



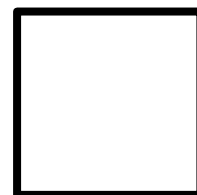
Color the next numbers in the patterns in these number charts.

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>

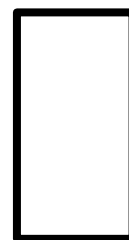
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>

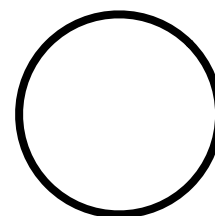
Match the shapes with their names.



rectangle

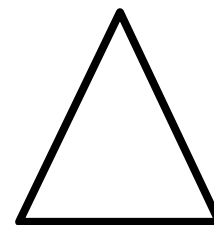


circle



triangle

square

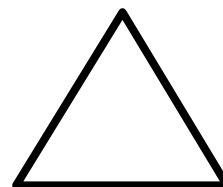
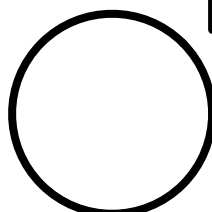
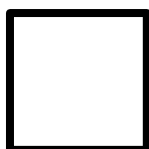
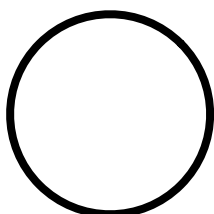
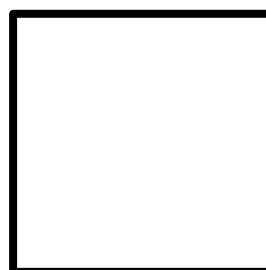
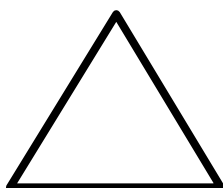
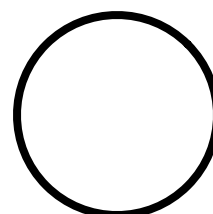
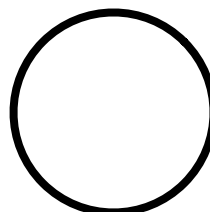
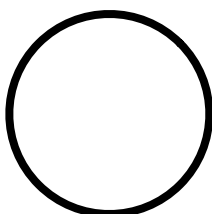
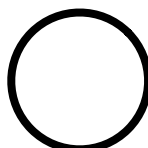
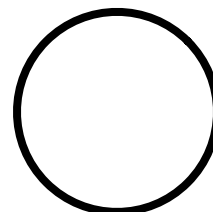
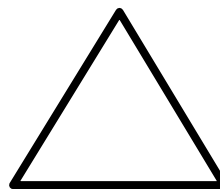
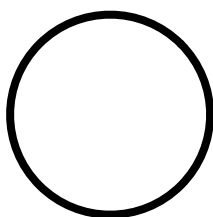
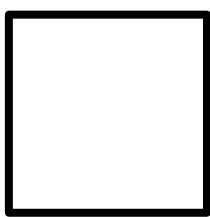


How many rectangles do you see? \_\_\_\_\_

How many squares do you see? \_\_\_\_\_

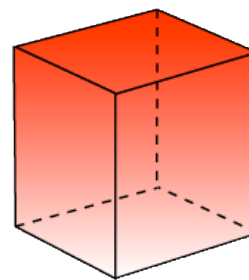
How many circles do you see? \_\_\_\_\_

How many triangles do you see? \_\_\_\_\_

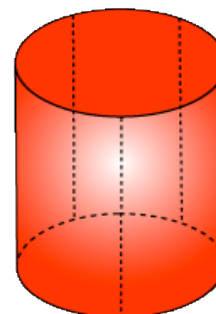


Match the figures with their names.

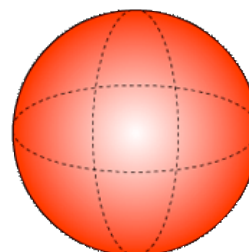
cylinder



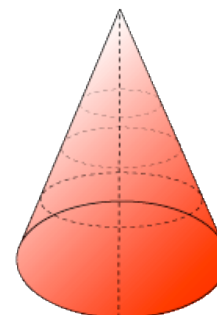
sphere



cone



cube



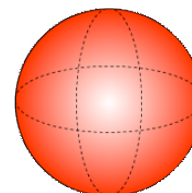
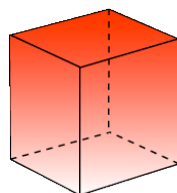
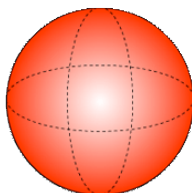
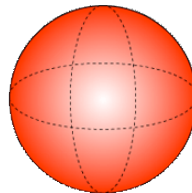
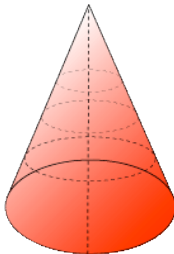
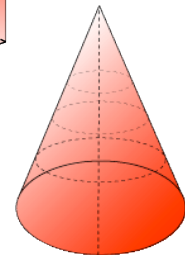
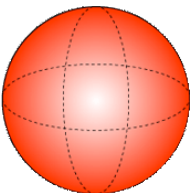
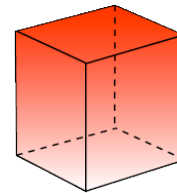
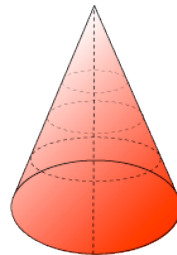
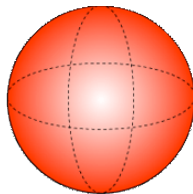
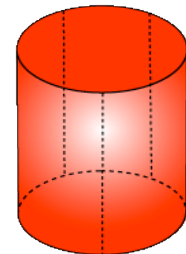
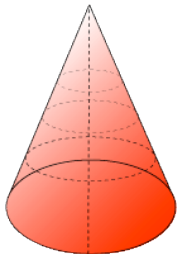
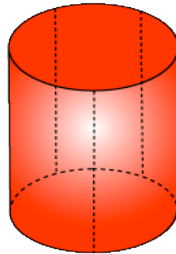
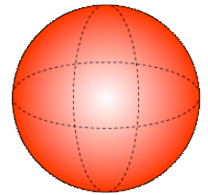
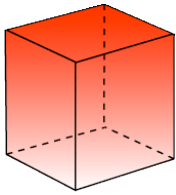


How many cones do you see? \_\_\_\_\_

How many cubes do you see? \_\_\_\_\_

How many cylinders do you see? \_\_\_\_\_

How many spheres do you see? \_\_\_\_\_



Answer these questions about shapes.

How many sides does a square have? \_\_\_\_\_

How many sides does a triangle have? \_\_\_\_\_

How many sides does a rectangle have? \_\_\_\_\_

How many corners does a square have? \_\_\_\_\_

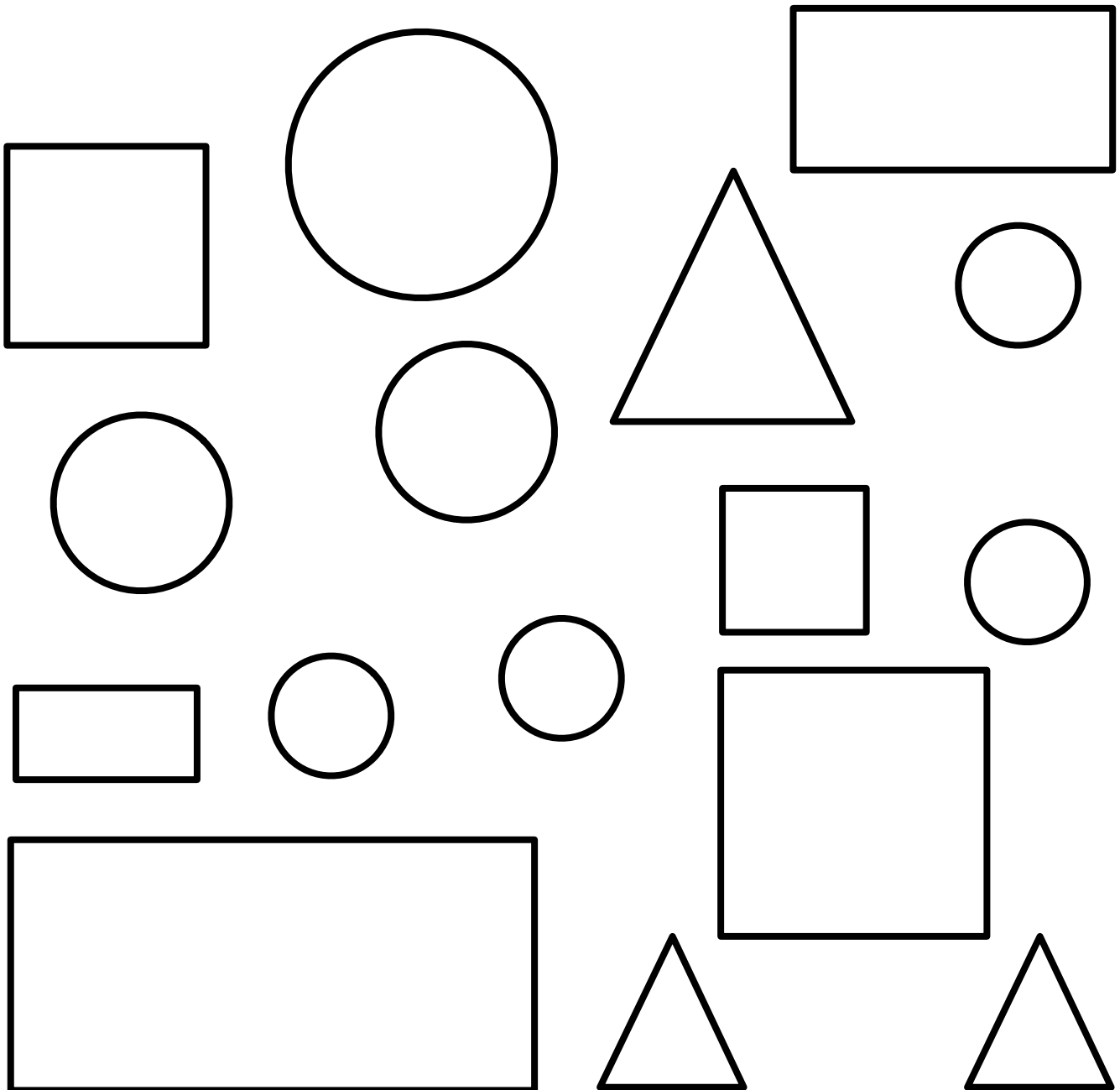
How many corners does a triangle have? \_\_\_\_\_

How many corners does a rectangle have? \_\_\_\_\_

How many corners does a circle have? \_\_\_\_\_



Circle the biggest circle.  
Circle the biggest square.  
Circle the biggest rectangle.  
Circle the biggest triangle.



Answer these questions about figures.

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

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

How many faces does a cone have? \_\_\_\_\_

How many faces does a sphere have? \_\_\_\_\_

How many corners does a cube have? \_\_\_\_\_

How many corners does a cone have? \_\_\_\_\_

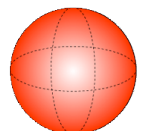
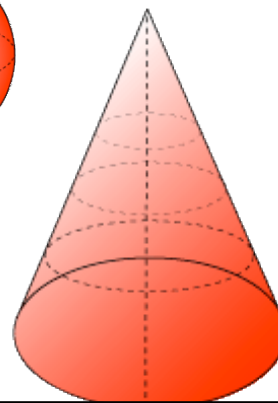
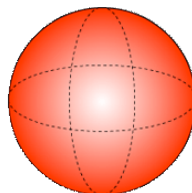
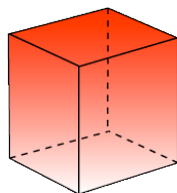
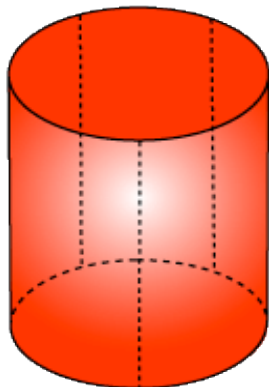
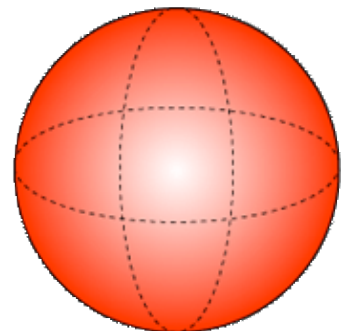
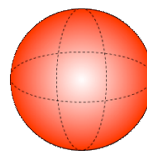
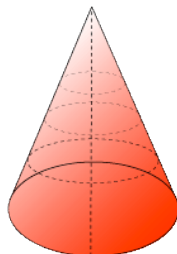
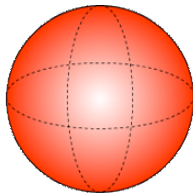
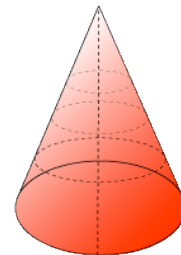
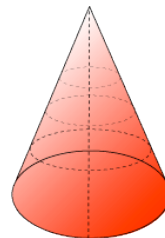
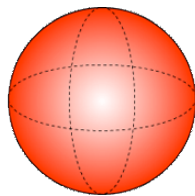
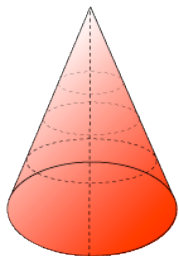
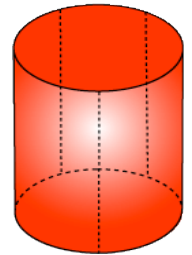
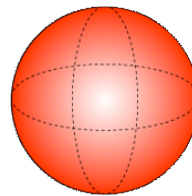
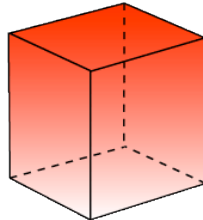
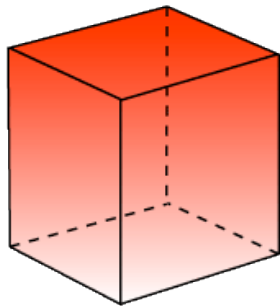
How many corners does a sphere have? \_\_\_\_\_

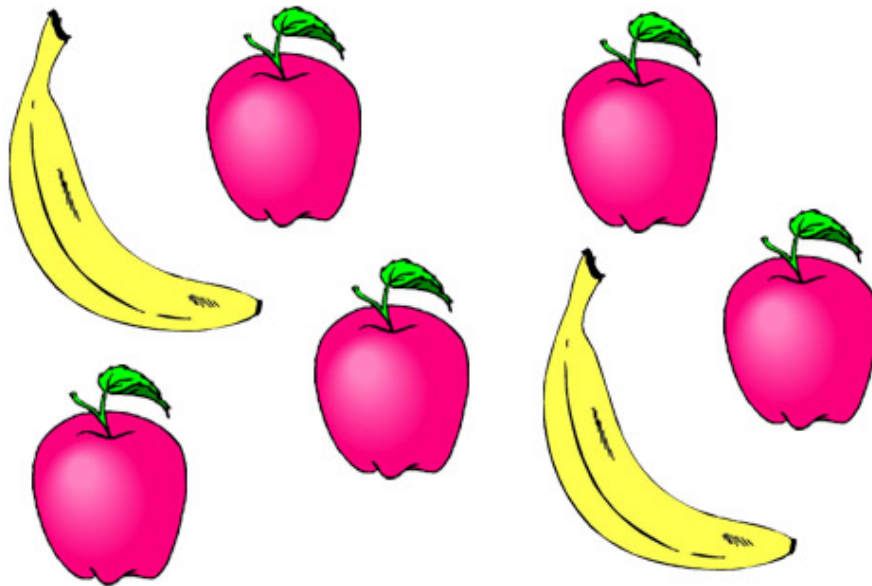
How many corners does a cylinder have? \_\_\_\_\_





Circle the biggest cone.  
Circle the biggest cylinder.  
Circle the biggest sphere.  
Circle the biggest cube.





Look at this picture of fruit.

How many apples? \_\_\_\_\_

How many bananas? \_\_\_\_\_

How many pieces of fruit in total? \_\_\_\_\_

How many more apples than bananas? \_\_\_\_\_

How many red pieces of fruit? \_\_\_\_\_

How many yellow pieces of fruit? \_\_\_\_\_



WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Atiya

WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Atiya

WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Lee

WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Steven

WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Atiya

WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Lee

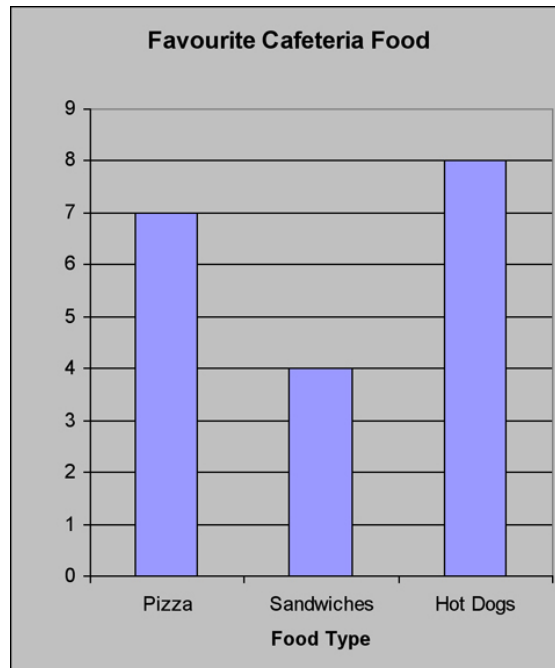
WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Steven

WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Lee

WHO WOULD YOU LIKE TO BE CLASS PRESIDENT?  
Lee

Your class has a vote for class president.  
Look at each ballot and keep track of how many votes each person has.

- Who won the vote? \_\_\_\_\_
- Did Steven and Lee get the same number of votes? \_\_\_\_\_
- Did Lee and Atiya get the same number of votes? \_\_\_\_\_
- Did Atiya and Steven get the same number of votes? \_\_\_\_\_
- How many votes did Steven get? \_\_\_\_\_
- How many votes did Atiya get? \_\_\_\_\_
- How many votes did Lee get? \_\_\_\_\_
- How many votes were there in total? \_\_\_\_\_



The class did a survey of their favorite cafeteria foods and put the results on this chart.

Which meal did most students say was their favorite?

\_\_\_\_\_

Which meal did the least students say was their favorite?

\_\_\_\_\_

How many students said pizza was their favorite food?

\_\_\_\_\_

How many students said a sandwich was their favorite food?

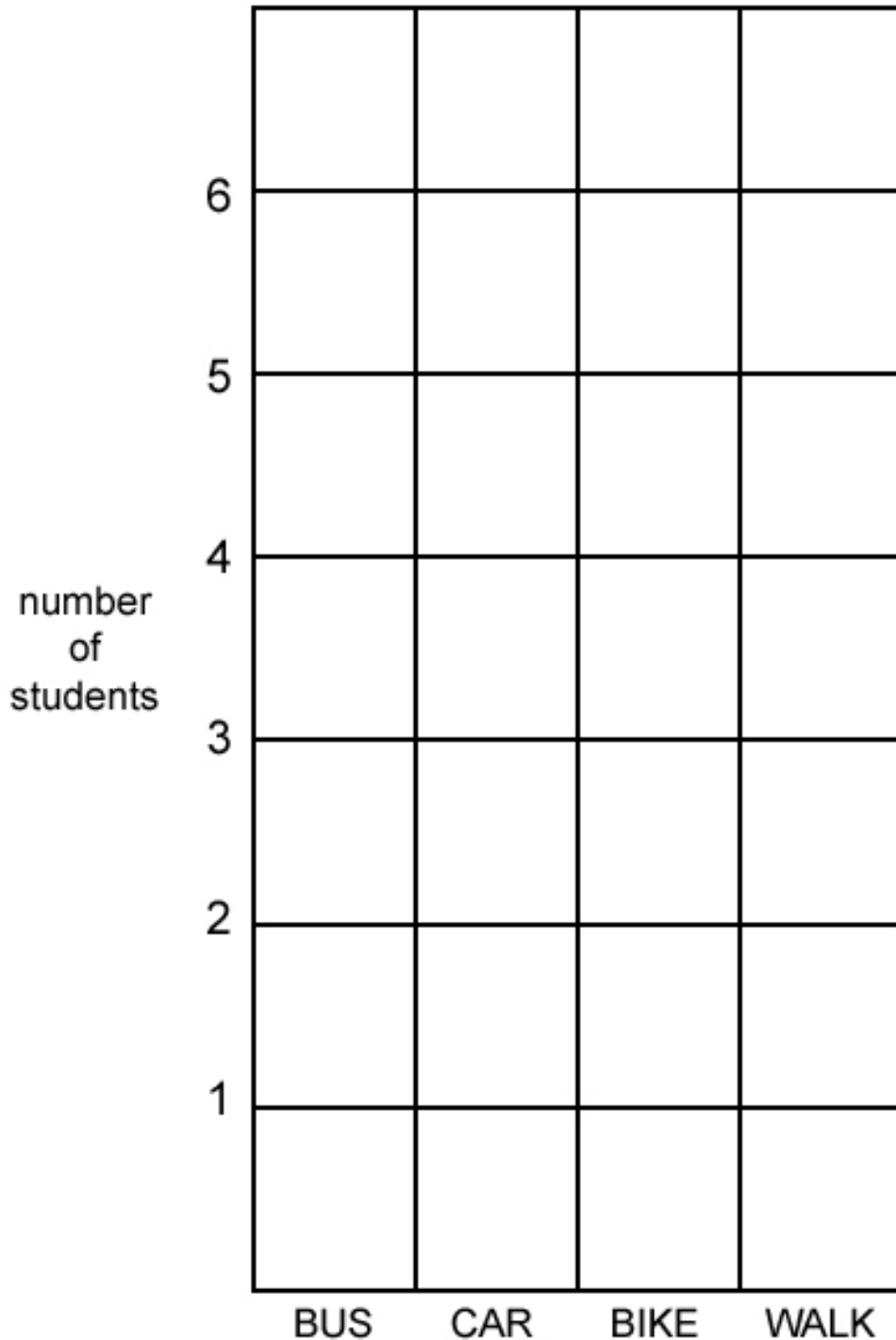
\_\_\_\_\_

How many students said that a hot dog was their favorite food?

\_\_\_\_\_



### HOW THE CLASS GETS TO SCHOOL





Your teacher did a survey about how each student  
in your class gets to school each day.

After you hear the results, color the squares in the graph on  
Sheet 1 and fill them in with the right number of students.

**3** students said they took the bus.

**4** students said they walk.

**5** students come to school in a car.

**2** students ride their bikes to school every day.



Great! Now answer these questions:

How many students take the bus? \_\_\_\_\_

How many students walk? \_\_\_\_\_

How many students ride their bikes? \_\_\_\_\_

How many students get rides in a car? \_\_\_\_\_

How many students did your teacher ask in total? \_\_\_\_\_

What was the most popular way of getting to school? \_\_\_\_\_

What was the least popular way of getting to school? \_\_\_\_\_