Essential Skills™

Worksheet Set
Patterning, Geometry & Data Management 2

SKILLS COVERED:
Patterning - What is Missing?
Patterning - What Comes Next?
Patterning - Make the Pattern
Patterning - Talking About Patterns
Patterning - Number Charts
Geometry - 2D Shape Naming
Geometry - 2D Shape Properties
Geometry - 3D Figure Naming
Geometry - 3D Figure Properties
Geometry - Symmetry
Geometry - Flips, Turns, Slides
Geometry - Grids
Data Management - Counting
Data Management - Surveying
Data Management - Sorting
Data Management - Graphing

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Essential Skills

Look at the pattern and fill in the missing letter.

A, B, C, A, B, C, A, ___, C

B, B, D, B, ___, D, B, B, D

O, A, ___, O, A, A, O, A, A

P, V, V, P, V, V, ___, V, V

X, Z, A, X, Z, A, ___, Z, A

T, I, M, T, ___, M, T, I, M

B, D, D, B, D, ___, B, D, D

Write the next four numbers of each pattern into the blanks below.

2, 4, 6, 8, ___, ___, ___, ___

1, 3, 5, 7, ___, ___, ___, ___

4, 6, 8, 10, , ___, ___, ___, ___

24, 25, 26, 27, ___, ___, ___, ___

79, 80, 81, 82, ___, ___, ___, ___

28, 30, 32, 34, ___, ___, ___, ___

74, 76, 78, 80, ___, ___, ___, ___

13, 15, 17, 19, ___, ___, ___, ___

1. Rearrange the numbers so they go up by 1
6, 8, 5, 7, 9

___, ___, ___, ___, ___

2. Rearrange the numbers so they go up by 2
10, 4, 8, 6, 2

___, ___, ___, ___, ___

3. Rearrange the numbers so they go up by 3
9, 3, 12, 6, 15

___, ___, ___, ___, ___

4. Rearrange the numbers so they go up by 4
16, 4, 12, 8, 20

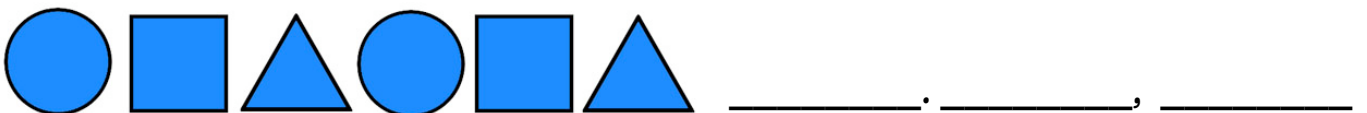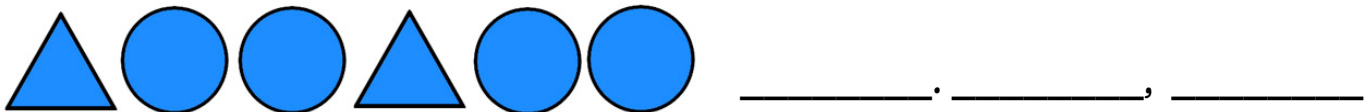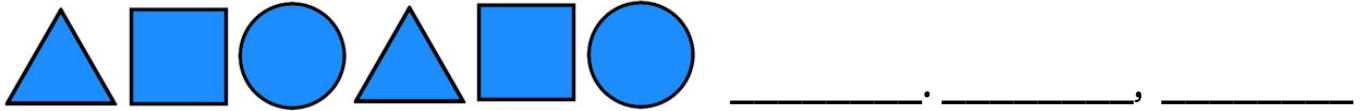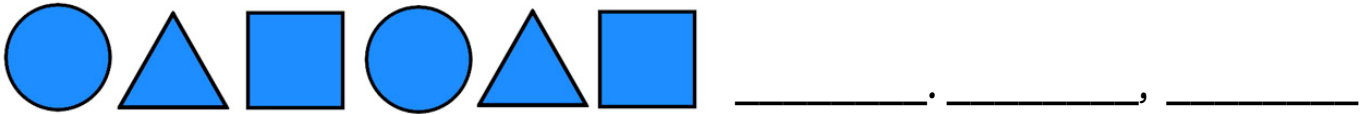___, ___, ___, ___, ___

5. Rearrange the numbers so they go up by 5
25, 15, 5, 10, 20

___, ___, ___, ___, ___

Use the words SQUARE, CIRCLE and TRIANGLE
to describe each pattern.

⬤ ▲ ◼ ⬤ ▲ ◼ _____. _____, _____

▲ ◼ ⬤ ▲ ◼ ⬤ _____. _____, _____

▲ ⬤ ⬤ ▲ ⬤ ⬤ _____. _____, _____

⬤ ⬤ ◼ ⬤ ⬤ ◼ _____. _____, _____

⬤ ◼ ▲ ⬤ ◼ ▲ _____. _____, _____

Fill in the next ten numbers in the pattern you see in the number chart below.

1	2	**3**	4	5	**6**	7	8	**9**	10
11	**12**	13	14	**15**	16	17	**18**	19	20
21	22	23	**24**	25	26	**27**	28	29	**30**
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Fill in the next ten numbers in the pattern you see in the number chart below.

1	2	3	**4**	5	6	7	**8**	9	10
11	**12**	13	14	15	**16**	17	18	19	**20**
21	22	23	**24**	25	26	27	**28**	29	30
31	**32**	33	34	35	**36**	37	38	39	**40**
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Match the shapes with their names.
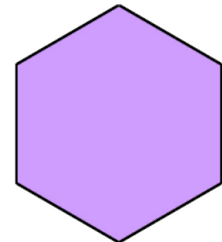
rectangle
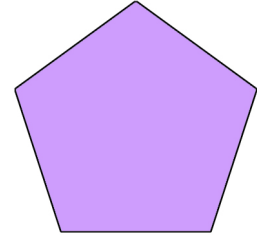
octagon
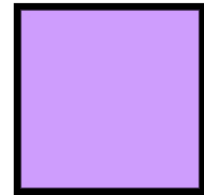
circle
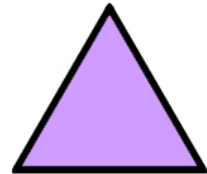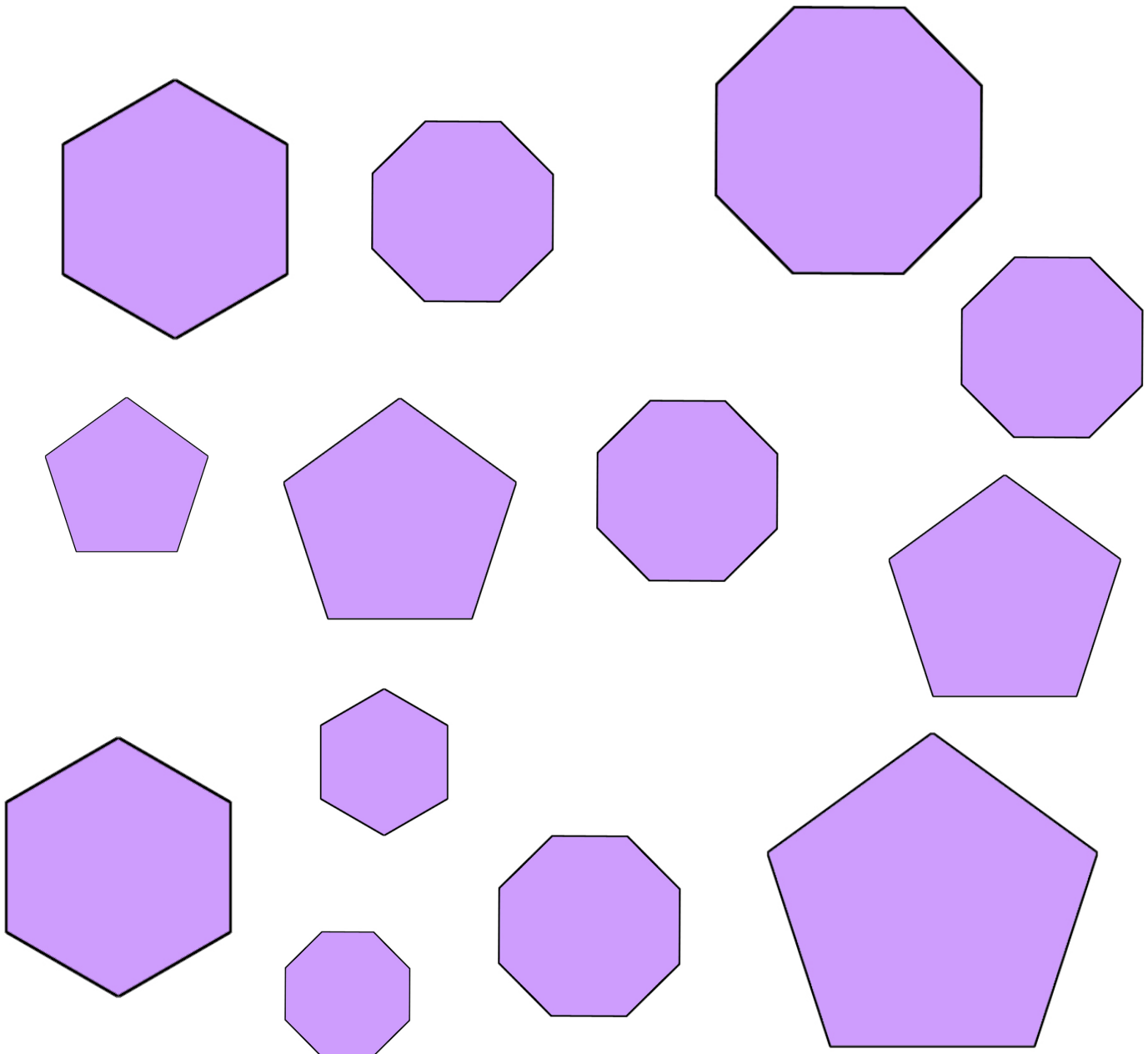
pentagon
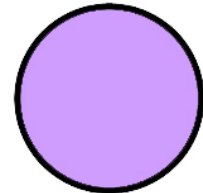
triangle
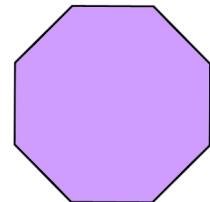
square

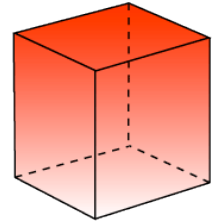hexagon

How many octagons do you see? _____
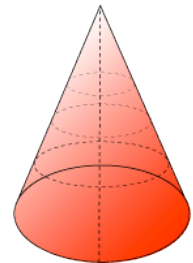How many pentagons do you see? _____
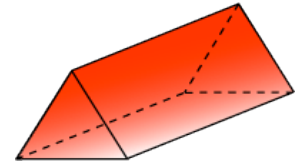How many hexagons do you see? _____
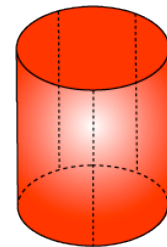
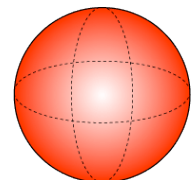# Match the figures with their names.
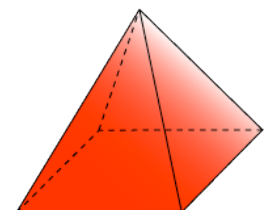
cylinder
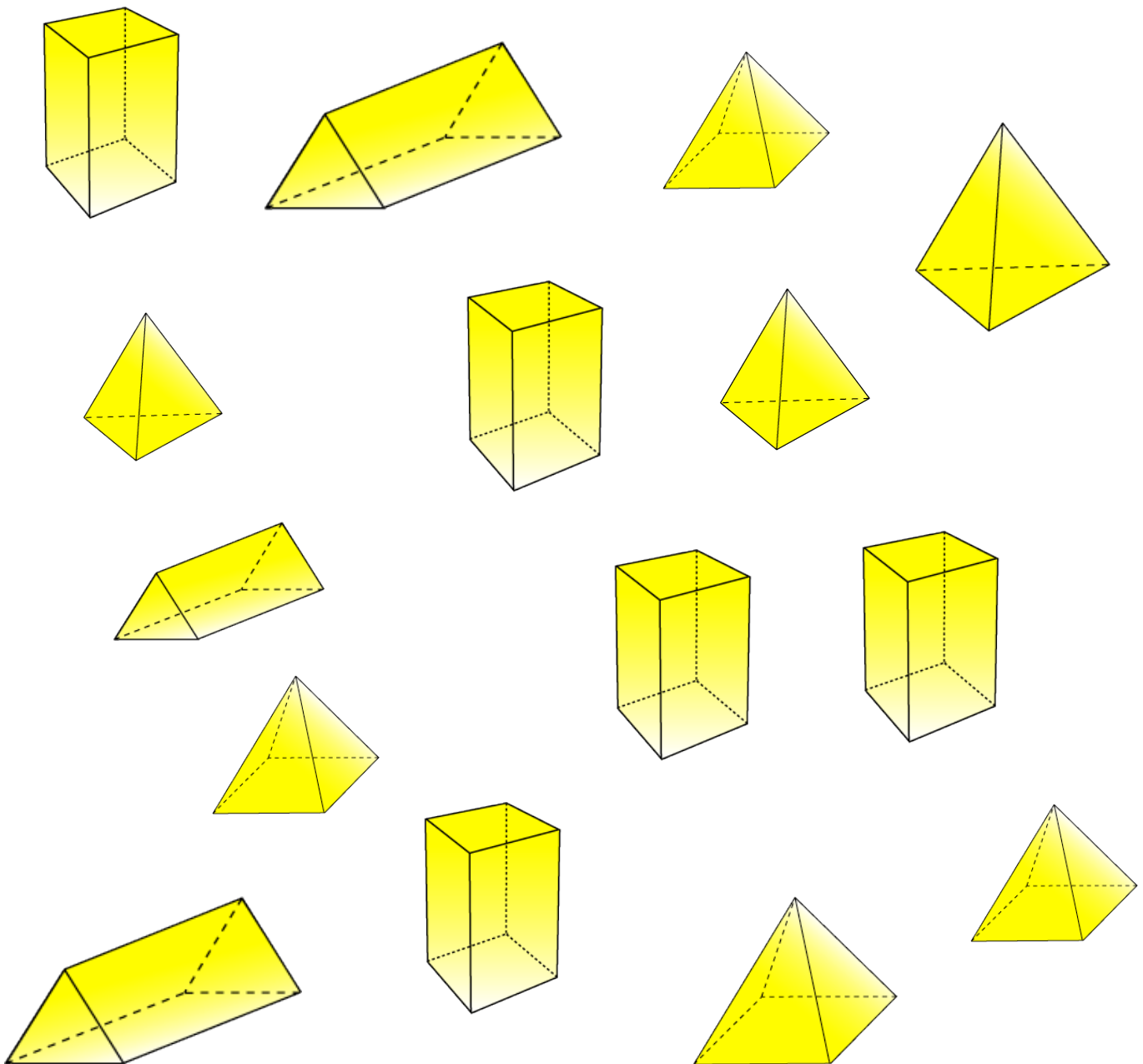
prism

sphere

pyramid

cone

cube

How many rectangular prisms do you see? _____
How many triangular prisms do you see? _____
How many square-based pyramids do you see? _____
How many triangle-based pyramids do you see? _____

Answer these questions about shapes.

How many sides does a rectangle have? _____

How many corners does a triangle have? _____

How many corners does a circle have? _____
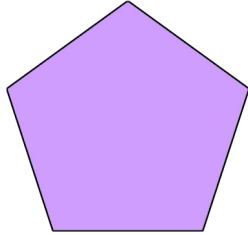
How many corners does a hexagon have? _____

How many sides does an octagon have? _____

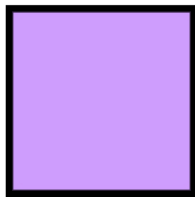How many sides does a pentagon have? _____

How many corners does a pentagon have? _____

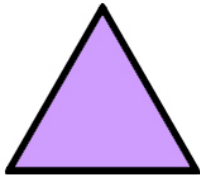How many corners does an octagon have? _____

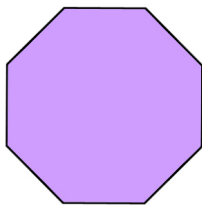## How many sides and vertices does each shape have?
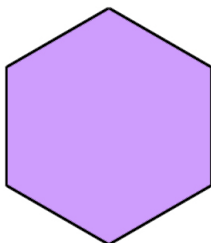
sides _____ vertices _____

sides _____ vertices _____

sides _____ vertices _____

sides _____ vertices _____

sides _____ vertices _____

sides _____ vertices _____

Answer these questions about figures.

How many faces does a cube have? _____

How many faces does a cone have? _____

How many corners does a cone have? _____

How many faces does a triangular prism have? _____

How many corners does a rectangular prism have? _____

How many faces does a square-based pyramid have? _____

How many corners does a triangle-based pyramid have? _____

How many faces does a rectangular prism have? _____

How many corners does a triangular prism have? _____

Which figure am I?

I have all triangle faces.

I am a _____.

I can roll.

I am a _____.

I have six faces that are rectangles.

I am a _____.
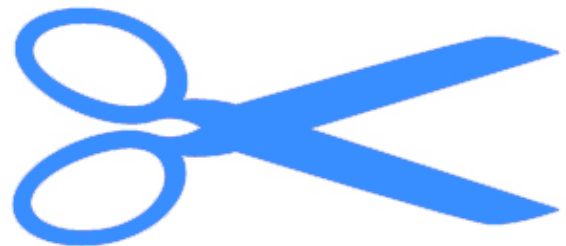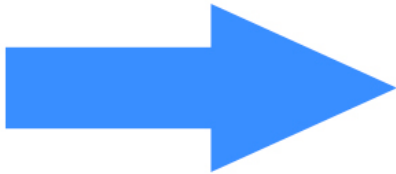
I am shaped like a ball.

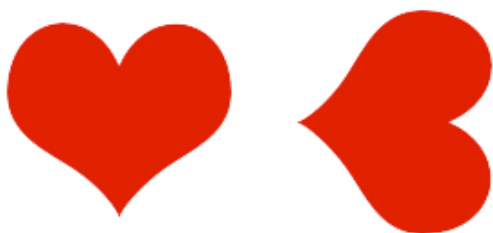I am a _____.

I have all square faces.

I am a _____.

I am shaped like a can of pop.

I am a _____.

Draw a line over each shape so that it is divided into two symmetrical halves.

Which transformation do you see?
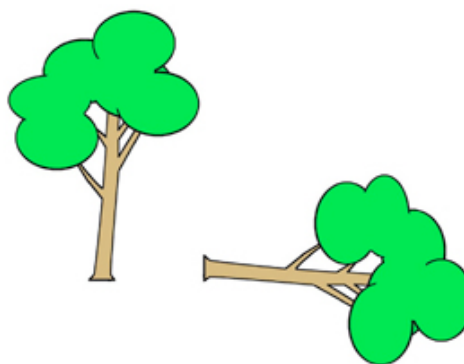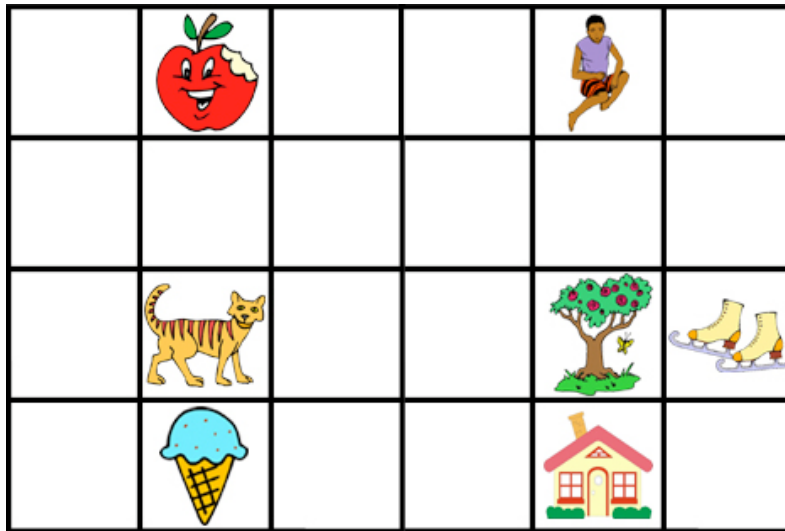## A flip, a slide or a turn?

I see a _____.

I see a _____.

I see a _____.

I see a _____.

Look at the grid and fill in the blanks below.

The apple is _____ square(s) to the left of the boy.

The cat is _____ square(s) down from the apple.

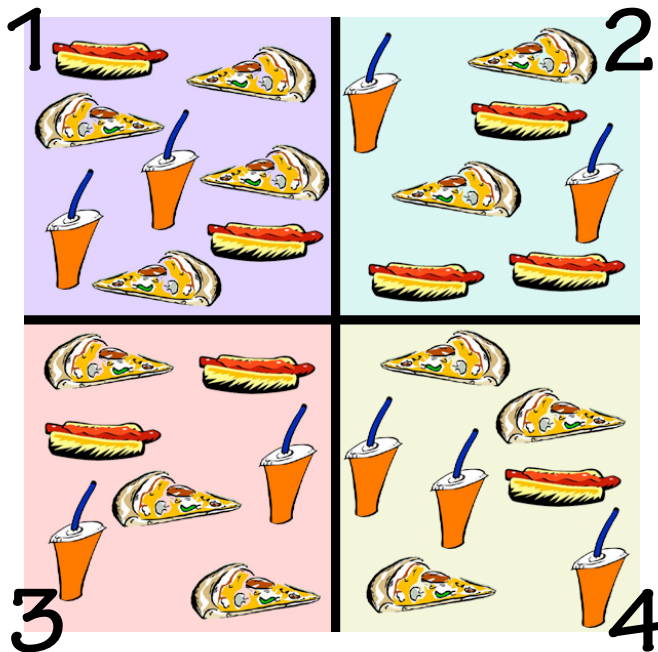The iced cream cone is _____ square(s) down from the cat.

The iced cream cone is _____ square(s) left of the house.

The cat is _____ square(s) to the left of the tree.

The cat is _____ square(s) to the left of the skates.

The skates are _____ square(s) to the right of the cat.

The house is _____ square(s) down from the boy.

Answer the questions below:

Which group has 4 pizza slices, 2 hot dogs and 2 drinks? ____

Which group has 2 pizza slices, 3 hot dogs and 2 drinks? ____

Which group has the most pizza slices? ____

Which group has the most hot dogs? ____

Which group has the most drinks? ____

Which group has the least hot dogs? ____

Which group has the least pizza slices? ____

Which group has 8 items in total? ____

Look at this picture of some rock stars. Now tell me:

How many are girls? _____

How many are boys? _____

How many are wearing hats? _____

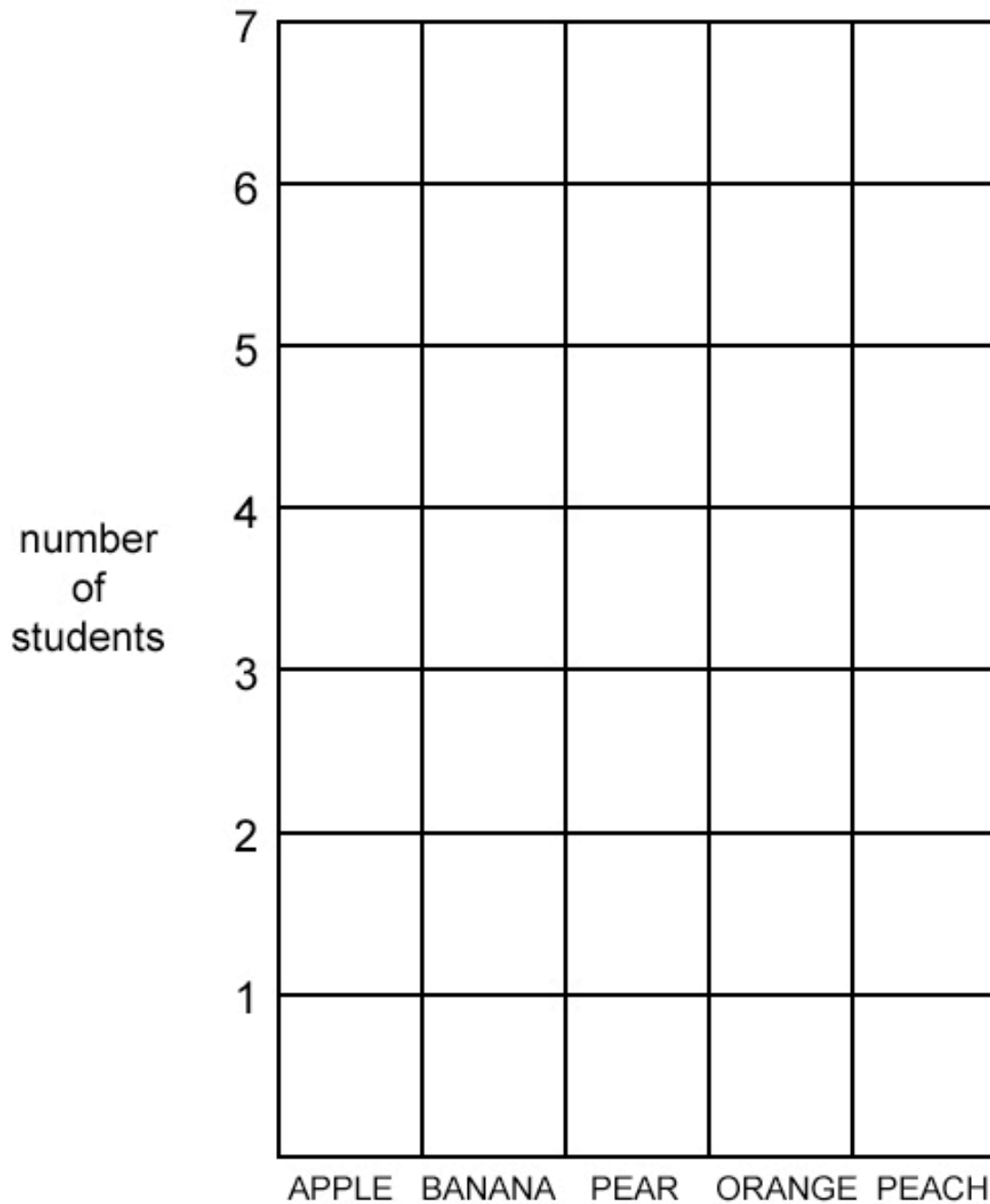How many are wearing jackets? _____

How many are dancing? _____

How many have black hair? _____

How many have sunglasses on? _____

How many are wearing high heeled shoes? _____

How many are there in total? _____

THE STUDENTS' FAVOURITE FRUIT

number
of
students

7					

APPLE BANANA PEAR ORANGE PEACH

Your teacher does a survey of the class to figure out
what is the most popular fruit in your class.
As you see the results, fill in the blank squares on
the graph by coloring them in.

4 students said they liked pears the best
7 students said they liked bananas the best
4 students said they liked apples the best
1 student said he liked peaches the best
6 students said they liked oranges the best

When you are done, answer these questions:

Which fruit was the most popular? _____

Which fruit was the least popular? _____

Which two fruits were tied? _____

How many more students liked bananas than apples? _____

How many students were surveyed in total? _____