Year 1

Place Value & Counting

Reasoning and Problem Solving

Name: _____

Class: _____

Identifying Place Value

Determine the place values for the underline numbers.

Example <u>5</u>6 =<u>5 tens.</u>

1	<u>4</u> =		9	9<u>1</u> =	
2	2<u>6</u> =		10	<u>1</u>0=	
3	9<u>8</u> =		11	2<u>7</u> =	
4	<u>1</u>7 =		12	<u>10</u>	
5	3<u>1</u> =		13	<u>9</u>9=	
6	<u>83</u> =		14	<u>11</u>=	
7	<u>4</u>0 =		15	<u>20</u> =	
8	<u>2</u>1=		16	<u>29</u> =	

Identify Tens and Ones

Fill in the correct tens and ones for the given numbers.

☐ tens and ☐ ones = **37**

☐ tens and ☐ ones = **59**

☐ tens and ☐ ones = **61**

☐ tens and ☐ ones = **87**

☐ tens and ☐ ones = **44**

☐ tens and ☐ ones = **10**

☐ tens and ☐ ones = **23**

☐ tens and ☐ ones = **60**

☐ tens and ☐ ones = **28**

Combining Tens and Ones

Find the correct numbers for the given tens and ones.

☐	=	2 tens	4 ones
☐	=	9 tens	5 ones
☐	=	7 tens	6 ones
☐	=	5 tens	2 ones
☐	=	1 ten	0 ones
☐	=	0 tens	4 ones
☐	=	3 tens	9 ones
☐	=	6 tens	5 ones
☐	=	8 tens	8 ones

Numbers: Counting one more and continue sequence.

LO: To use place value to solve problems.

- I can count one more to complete a number sequence.

- I can use place value to complete a number pattern.

- I can apply my knowledge to solve problems.

Reasoning:

Using numbers from 0 to 10. How many different ways can you complete the boxes below?

8	is one more than	7
	is one more than	
	is one more than	
	is one more than	
	is one more than	

Problem Solving:

Tom rolls the number that is 1 more than the dice below.

He says that he rolls 2. Explain his mistake.

Numbers: Compare Objects by ordering and grouping.

LO: To solve problems by ordering and grouping objects.

- I can order and group objects using `greatest` and `smallest`.

- I can choose efficient methods of ordering and grouping objects.

- I can apply my knowledge to solve problems.

Reasoning:

Molly is ordering these dices by numbers from greatest to smallest numbers of dots on it.

She says I can just compare the first two to work out the answer. Do you agree?

Help Molly to arrange the dice in the order from greatest to smallest number.

Problem Solving:

True or False?

1 more than 6 is the same as 1 less than 8 . Use the ten frames to show me. Do you agree?

Explain

Numbers: Counting Forwards and Backwards

LO: To recognize number sequence and use them to solve problems.

- I can count forwards to complete a number sequence.

- I can count backwards to continue a number sequence.

- I can apply my knowledge to solve problems.

Reasoning:

a-Spot the mistake and explain what has been done wrong.

5,6,8,9,10

9,8,7,5,4

8,5,4,3,2,1

b- Jo is counting. Is she counting forward and backward?

How do you know?

9,8,7,6,5

Answer:

Problem Solving:

How have the following sequence been sorted? Chose one for each sequence. One is done for you.

1 Forward   2 Backward

4, 5, 6, 7, 8, 9.	**Forward**
9, 8, 7, 6, 5, 4.	
5, 6, 7, 8, 9 ,10.	
6, ,5, 4, 3, 2, 1.	

Place Value: Sorting Objects

LO: To use place Value to sort objects and solve problems.

Reasoning:
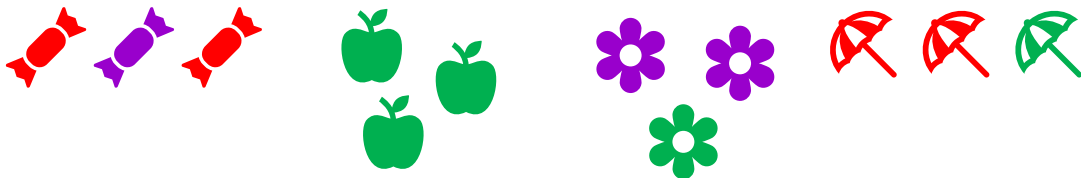
How have the objects sorted?

Answer:

How else can they be sorted?

Answer:

Problem Solving:

How can the objects be sorted?

Here are some objects. How many ways they can be sorted?

Numbers: Compare and Order Numbers.

LO: To solve problem by comparing and ordering numbers.

- I can compare and order numbers represented in a variety of ways.

- I can apply my knowledge to solve problems.

Reasoning:

0	
0	
0	0
	0
	0

Joe says: I have the ordered the boxes of dots from smallest to greatest.

0		0
0	0	0

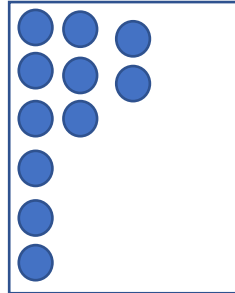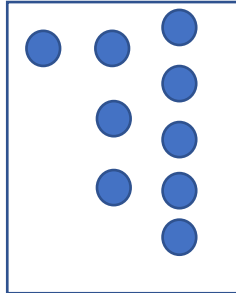| 0	0
0	0

Do you agree with Joe?

Explain your reasoning.

Problem Solving:

Numbers: Compare and Order Numbers.

Complete the images and match the numerals to the correct picture.

| 1, 3, 5 | | 8 ,4, 2 |

Numbers: Count Objects as Numerals

LO: To count and represent objects to solve problems.

- - I can represent and count objects as numerals.

- - I can apply my knowledge to solve problems.

Reasoning:

a-Count on the numbers from 8. Will I say number 6?

b-Maya has counted the toy cars and said.

There are 3 cars

Is she right?

Answer:

How many cars are there altogether?

Answer:

Problem Solving:

How can you show me that there are more green cars than blue cars?

Answer:

Numbers: Complete Numbers Sequence.

LO: To compare number sequences.

Reasoning:

How many different ways can you complete the number sentence?

$$3 + \_\_\_ \quad \boxed{<} \quad 3 + \_\_\_$$

Max and Joe have both created their own number bonds.

Max said," My total is larger because I have a 5 and a 4."

Joe said," My total is bigger because I have 10 altogether."

Who do you agree with? Explain your answer.

Solve:

$$4 + \_\_\_ \quad < \quad 5 + \_\_\_$$

$$3 + \_\_\_ \quad < \quad 6 + \_\_\_$$

$$7 + \_\_\_ \quad > \quad 9 + \_\_\_$$

$$9 + \_\_\_ \quad > \quad 8 + \_\_\_$$

Spot and Explain the mistake:

1st	2nd	3rd	5th