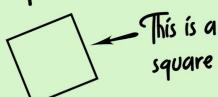
# I SEE REASONING YEAR 1

Tasks Tinspire mathematical thinking

True or False?



Iknow... so...

Finish the sentence:

A balloon is bigger and lighter than...



BY GARETH MET(ALFE

Available for digital download



# **Read the Pictures**

| The <b>whole</b> is The <b>parts</b> are and |
|--|--|--|--|
| The <b>whole</b> is The <b>parts</b> are and |
| The <b>whole</b> is The <b>parts</b> are and |
| The <b>whole</b> is                          | i  |  |  |
| The <b>parts</b> are and                     | The whole is The parts are and               | The whole is The parts are and               | The whole is The parts are and               |



# **Read the Pictures**

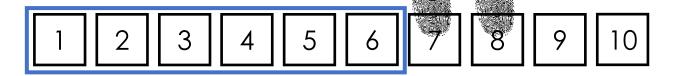
Meda IIIe I			
The <b>whole</b> is The <b>parts</b> are and			
The <b>whole</b> is The <b>parts</b> are and			
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The <b>whole</b> is The <b>parts</b> are and			
The <b>whole</b> is The <b>parts</b> are and			



## Read the Picture



7,8



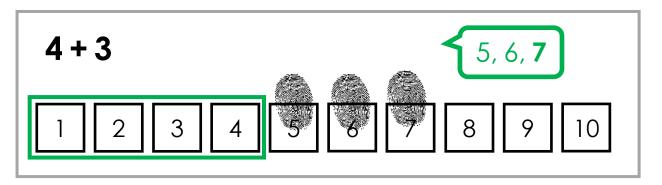
# **Spot the Mistake**

5 + 3

5, 6, **7** 



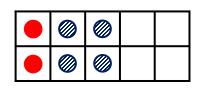
#### Which Answer?



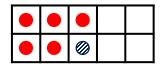




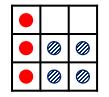
## Correct or Not Correct? ✓ or ×

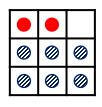


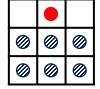
#### Read the Pictures



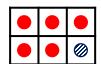
#### **Read the Pictures**

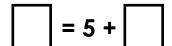


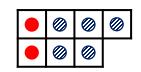


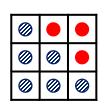


## **Read the Pictures**









The whole is...

The parts are... and...

# **Explore**

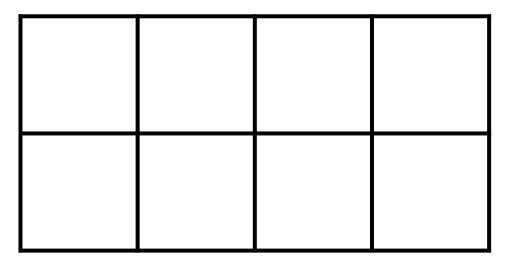
Show the answers with counters:

## **Explore**

Show the answers with counters:

# **Explore**

Show the answers with counters:

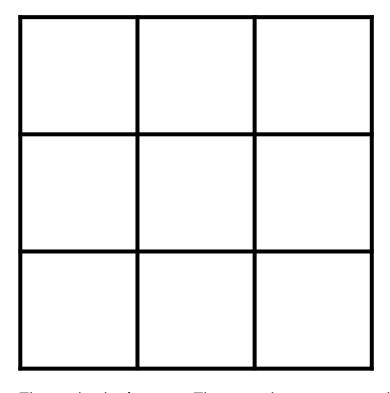


The whole is...

The parts are... and...

# **Explore**

Show the answers with counters:

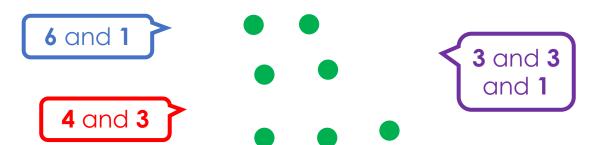


The whole is... The parts are... and...



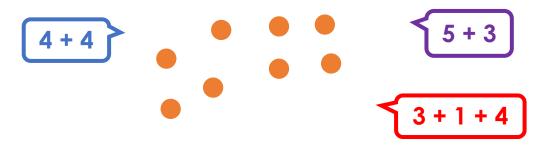
## **Read the Picture**

#### What do you see?



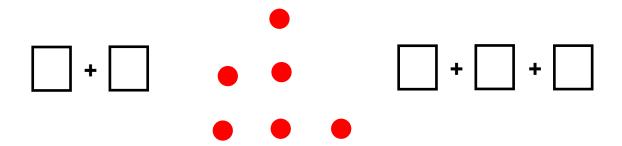
## **Read the Picture**

## What do you see?



#### Read the Picture

#### What do you see?

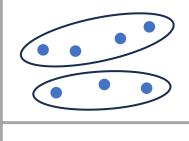


#### Read the Picture

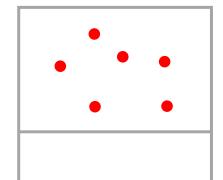
#### What do you see?

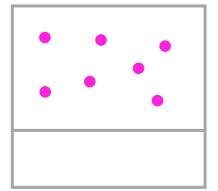


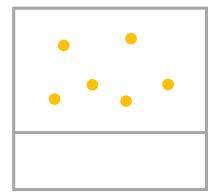
## **Read the Pictures**

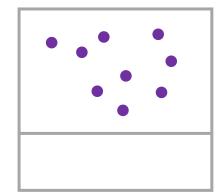


$$4 + 3 = 7$$

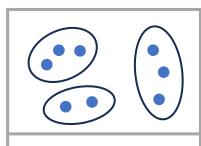




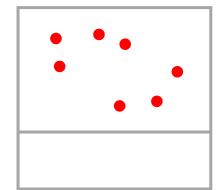


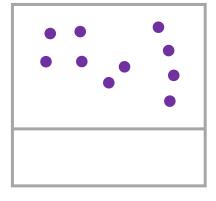


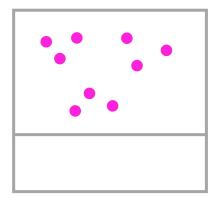
## **Read the Pictures**

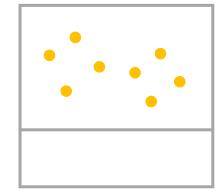


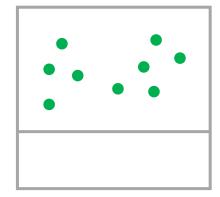
3 + 2 + 3 = 8









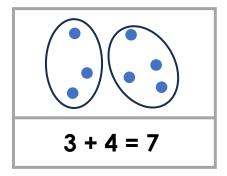


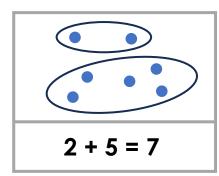


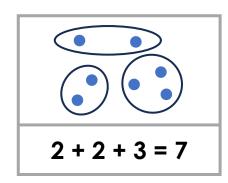
## **Different Ways**

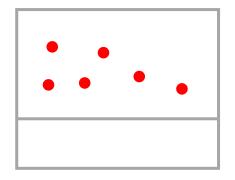
Show the parts. Write the number sentence.

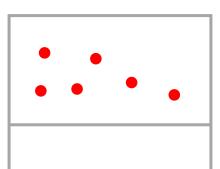
#### **Example:**

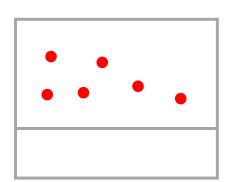


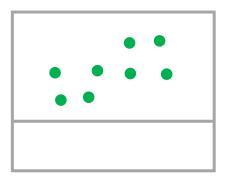


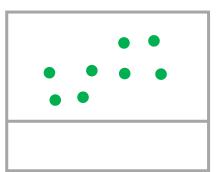


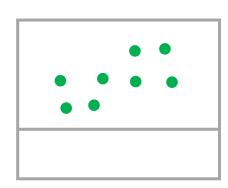


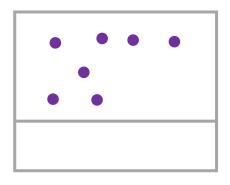


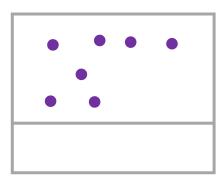


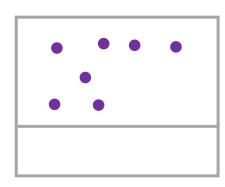










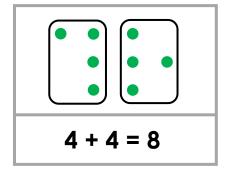


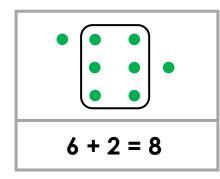


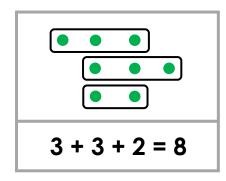
## **Different Ways**

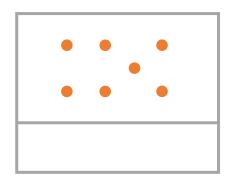
Show the parts. Write the number sentence.

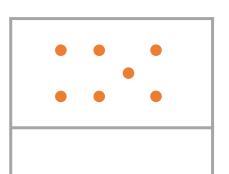
#### **Example:**

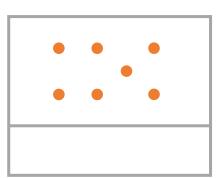


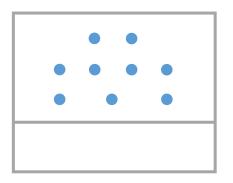


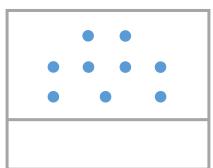


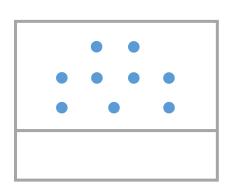


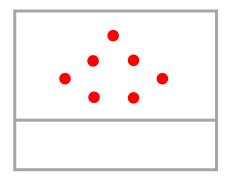


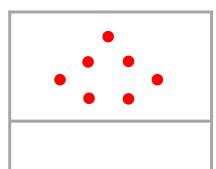


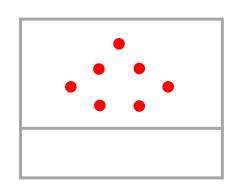








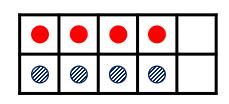


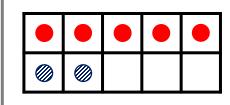


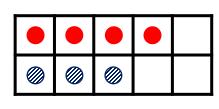


# **Explain**

#### What's the same? What's different?

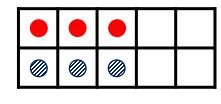


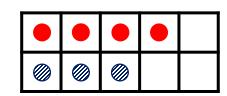


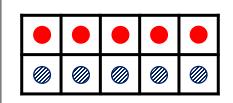


# **Explain**

#### What's the same? What's different?

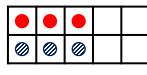




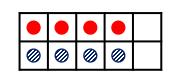




#### I know... so...

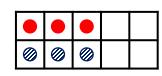


$$3 + 3 = 6$$



$$4 + 4 = 8$$

$$5 + 5 = 10$$



$$3 + 3 = 6$$

$$4 + 4 = 8$$

$$5 + 5 = 10$$

## I know... so...

$$3 + 3 = 6$$

$$4 + 4 = 8$$

$$5 + 5 = 10$$

$$4 + 4 = 8$$

$$5 + 5 = 10$$

$$5 + 5 = 10$$

#### **Small Difference Questions**

$$5 + 5 =$$

$$4 + 4 =$$

$$5 + 5 =$$

$$5 + 4 =$$

$$5 + 3 =$$

$$6 + 4 =$$

$$4 + 5 =$$

$$4 + 3 =$$

$$6 + 3 =$$



## **Multi-Step**

Fill the gaps. Use each digit:

5

Fill the gaps. Use each digit:

#### 6

## **Different Ways**

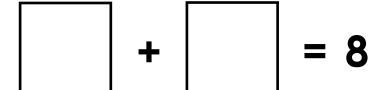
Fill the gaps. Use each digit:

1

**Extend:** Another way:

| + | = 6







# **Explain**

Fill the gaps. Use two of these digits: 2

3

4

5

+ = 8

Only one answer

**Different answers** 

# **Multi-Step**

Fill the gaps. Use each digit:

3

1

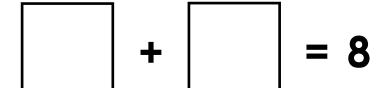
2

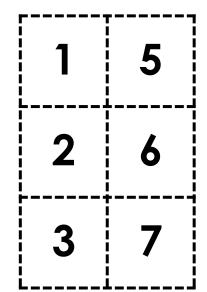
6

5 7

different answer?

**Extend:** Is there a







# **Explain**

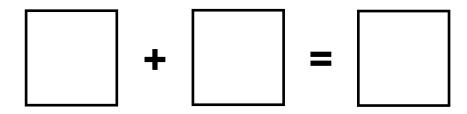
Fill the gaps. **Use three of these digits: 8** 

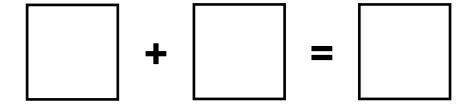
There are two answers

There are more than two answers

## **Extend**

Fill the gaps. Use each digit: 2

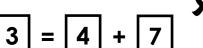




## **Explain the Mistake**

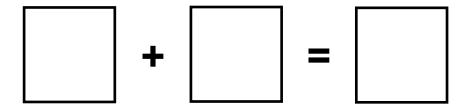
Fill the gaps. Use three of these digits: 3 4 7

Incorrect answer:



## **Extend**

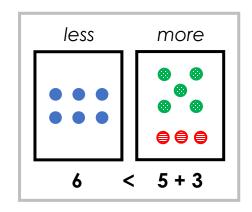
Fill the gaps. Use each digit: 1 2 3 5 6 7

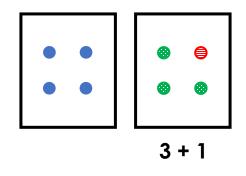


1 2 3 5 6 7

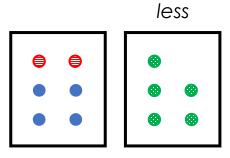


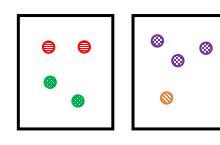
## Finish the Pictures













#### **Small Difference Questions**

Use < = >

Use < = >

## **Small Difference Questions**

Fill the gaps.

Use three of the digits: 2

## **Different Ways**

Which question has more answers?

# **Explain**

Answer each question. Which question has more answers?



# I SEE REASONING – Y1 Answers and Guidance

#### Selected Questions

#### Addition Within 10, page 9, 10 and 11:

**All questions:** Draw out the different ways that children visualised answering the questions, including whether they partitioned the quantities into two or three different numbers.

#### Addition Within 10, page 12:

All questions: Model practically using two-colour counters in 10-frames.

#### Addition Within 10, page 13:

I know... so... Model with 10-frames and counters if required.

I know... so... Model with 10-frames and counters if required.

**Small Difference Questions:** Model practically using two-colour counters in 10-frames. Draw out related facts (e.g. 5+4 is one less than 5+5) and questions with the same answer (e.g. 5+5=6+4).

#### Addition Within 10, page 14:

**Multi-Step:** Left: 5 + 2 = 7 6 + 3 = 9 Right: 6 + 2 = 8 5 + 4 = 9

**Different Ways:** Method one: 5 + 1 = 6 4 + 3 = 7 6 + 2 = 8

Method two: 4 + 2 = 6 + 1 = 7 + 5 + 3 = 8

Small Difference Questions: Model practically

#### Addition Within 10, page 15:

**Explain:** 5 + 3 and 3 + 5 are the only answers. There there isn't a 6 to go with the 2 and you would need to use two 4s.

**Multi-Step:** 5 + 1 = 6 6 + 2 = 8 7 + 3 = 10 This is the only answer (unless you reverse the digits). The only way to make 10 is using the 7 and 3 and with the remaining numbers the only way to make 8 is using the 6 and 2.

#### Addition Within 10, page 16:

**Explain:** 5 + 3 and 3 + 5 are the only answers. There there isn't a 6 to go with the 2 and you would need to use two 4s.

**Extend:**  $2 + 4 = 6 \quad 3 + 5 = 8$ 



# I SEE REASONING - Y1 Answers and Guidance

#### Selected Questions

Addition Within 10, page 17:

**Extend:**  $2 + 3 = 5 \quad 1 + 6 = 7$ 

Addition Within 10, page 19:

**Small Difference Questions:** Left: 6 = 4 + 2 Right: 6 > 3 + 2

**Different Ways:** Left: 3 or less Right: 9 or more (more answers using

positive whole numbers).

**Explain:** Top:  $0\rightarrow 3$  Middle: 4 Right: 5 or more (most answers)