

## Year 2 – Autumn Block 2 – Addition and Subtraction – Fact Families

### About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

### National Curriculum Objectives:

Mathematics Year 2: (2C1) [Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100](#)

Mathematics Year 2: (2C3) [Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems](#)

More [Year 2 Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# Step 1: Fact Families

## Introduction

Sort all the pairs of numbers that add to make 10.

3

5

8

6

4

0

1

10

9

7

5

2

## Introduction

Sort all the pairs of numbers that add to make 10.

**0**

and

**10**

**3**

and

**7**

**1**

and

**9**

**4**

and

**6**

**2**

and

**8**

**5**

and

**5**

## Varied Fluency 1

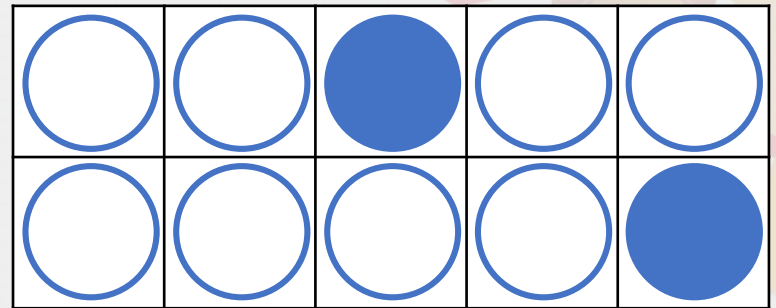
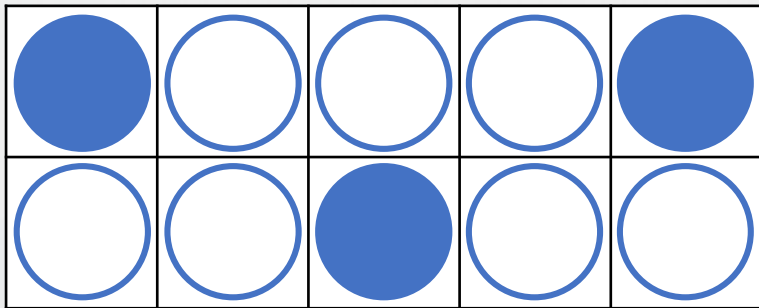
Which number sentence does not match the counters in these ten frames?

$$15 + 5 = 20$$

$$5 + 15 = 20$$

$$20 - 5 = 15$$

$$15 - 20 = 5$$



## Varied Fluency 1

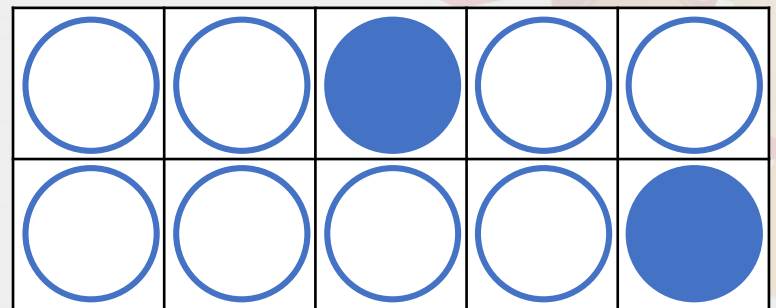
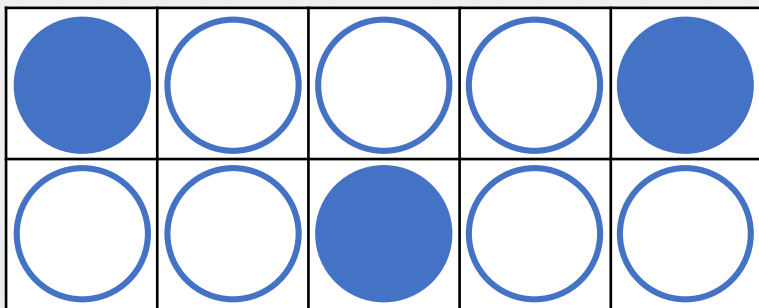
Which number sentence does not match the counters in these ten frames?

$$15 + 5 = 20$$

$$5 + 15 = 20$$

$$20 - 5 = 15$$

$$15 - 20 = 5$$



Varied Fluency 2

**True or false?**

**If  $17 + 3 = 20$ , then  $20 - 17 = 3$ .**

Varied Fluency 2

True or false?

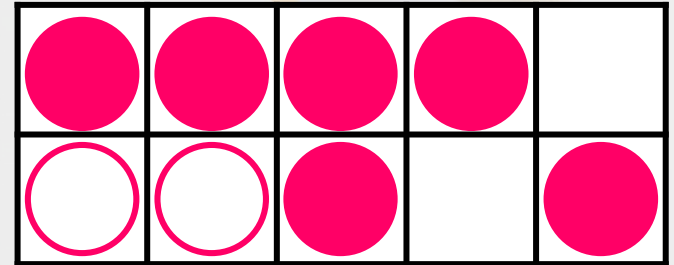
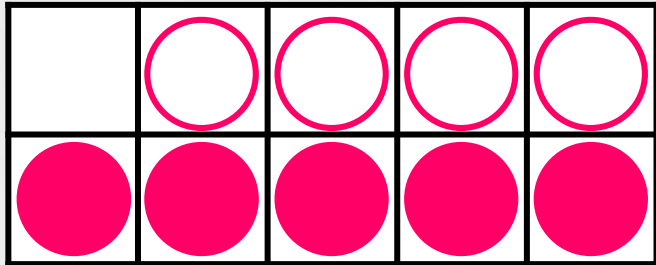
**If  $17 + 3 = 20$ , then  $20 - 17 = 3$ .**

**True**



### Varied Fluency 3

Use the tens frames to complete the missing numbers.

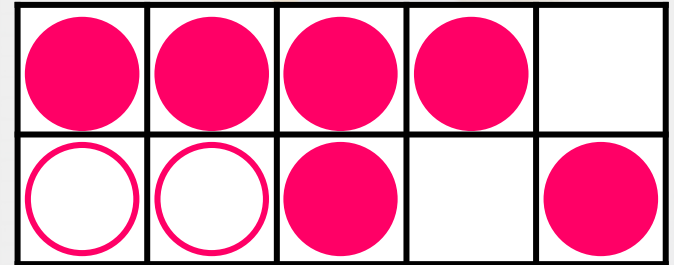
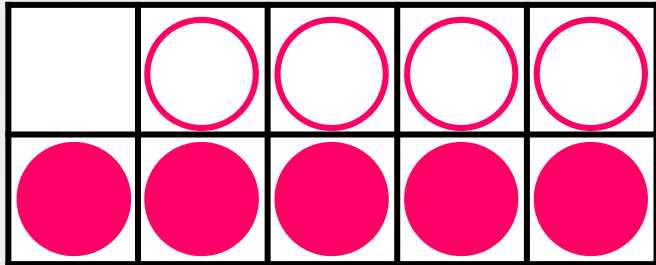


$$6 + \text{[pink splash]} = 17$$

$$17 - \text{[pink splash]} = 6$$

### Varied Fluency 3

Use the tens frames to complete the missing numbers.

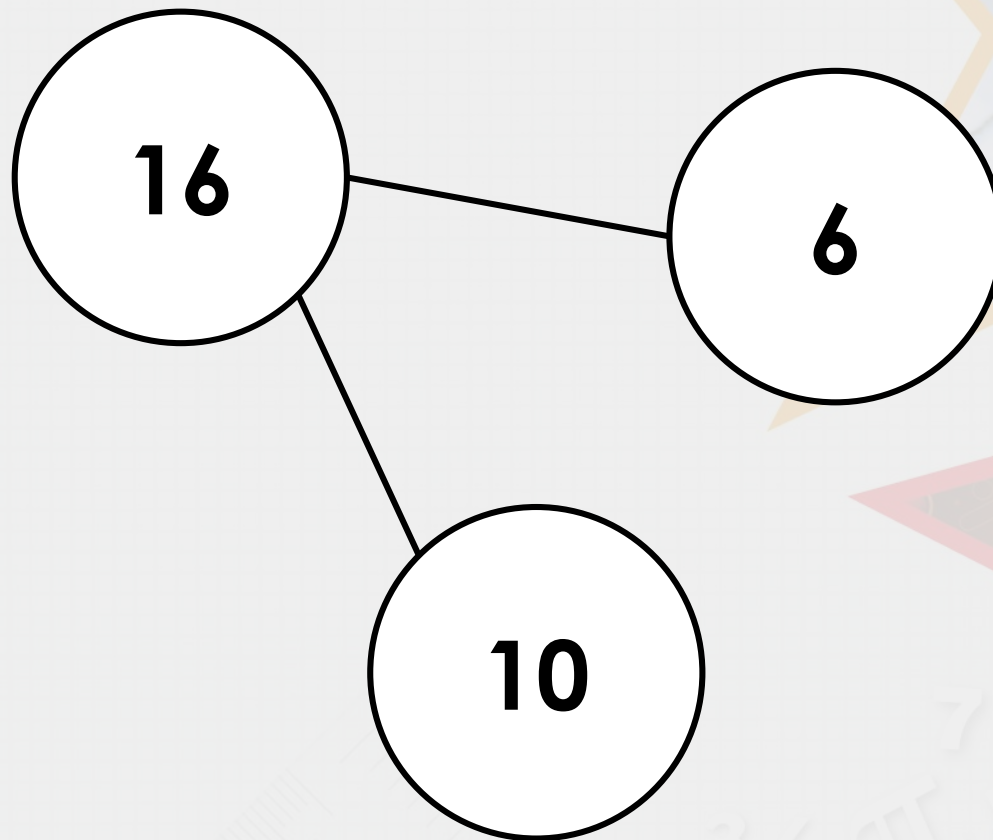


$$6 + 11 = 17$$

$$17 - 11 = 6$$

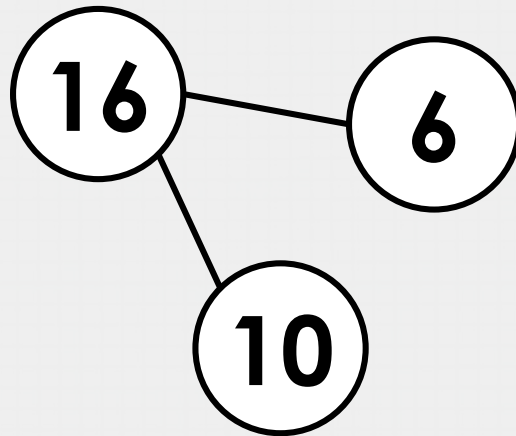
## Varied Fluency 4

Write four number sentences to describe the fact family shown in the part whole model.



## Varied Fluency 4

Write four number sentences to describe the fact family shown in the part whole model.



$$6 + 10 = 16$$

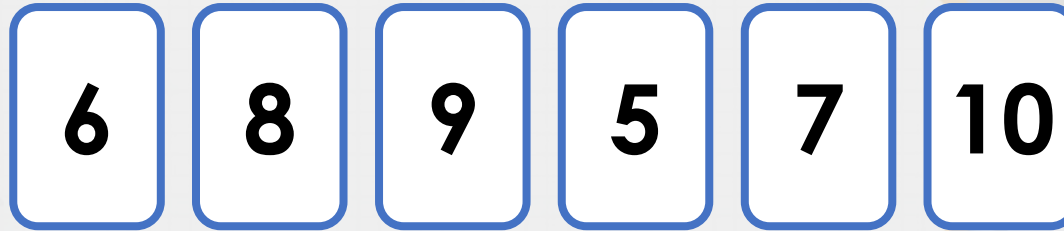
$$16 - 10 = 6$$

$$10 + 6 = 16$$

$$16 - 6 = 10$$

## Problem Solving 1

Use the number cards below to find three fact families.



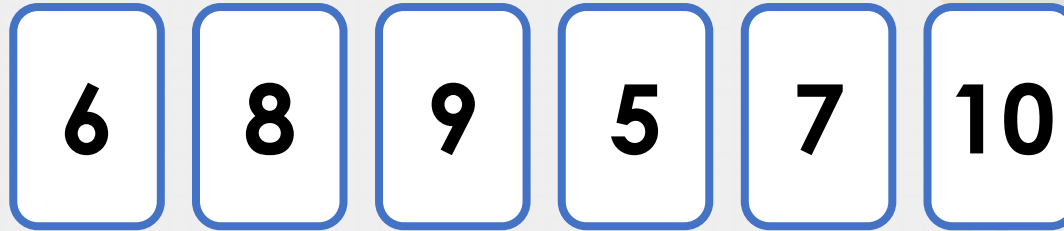
$$\square + \square = 15$$

$$15 - \square = \square$$

Write all of the possible number sentences.

## Problem Solving 1

Use the number cards below to find three fact families.



$$\boxed{10} + \boxed{5} = 15$$

$$15 - \boxed{5} = \boxed{10}$$

Write all of the possible number sentences.

Fact family using 15, 10 and 5; fact family using 15, 9 and 6; fact family using 15, 7 and 8.

## Problem Solving 2

**Max counts 11 pieces of fruit in the bowl. Use the images to write two addition number sentences.**



**Using the addition sentences, write the subtraction sentences that would complete the fact family.**

## Problem Solving 2

Max counts 11 pieces of fruit in the bowl. Use the images to write two addition number sentences.



Using the addition sentences, write the subtraction sentences that would complete the fact family.

$$5 + 6 = 11$$

$$11 - 5 = 6$$

$$6 + 5 = 11$$

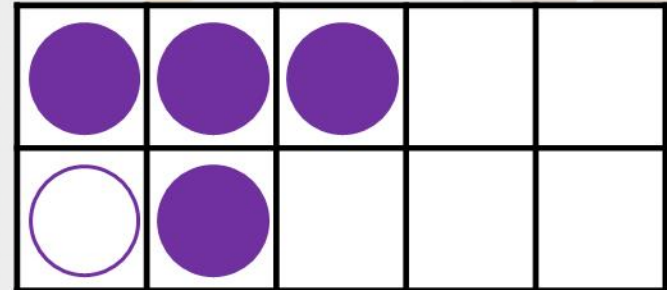
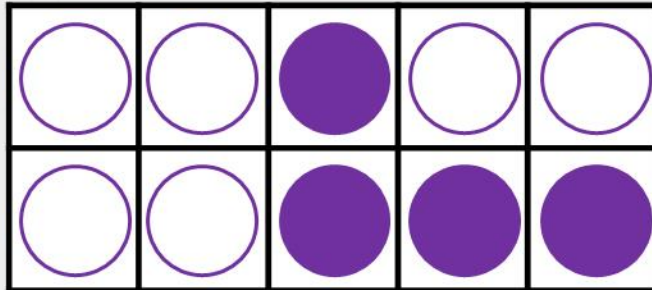
$$11 - 6 = 5$$



Reasoning 1

Amanda says,

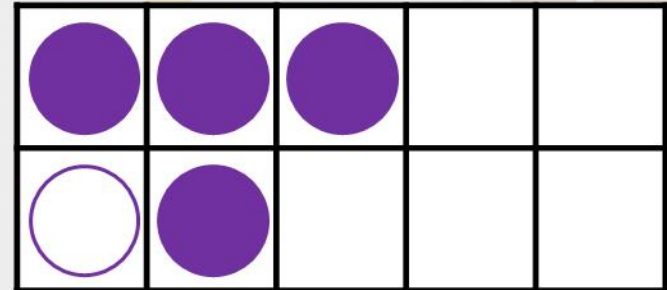
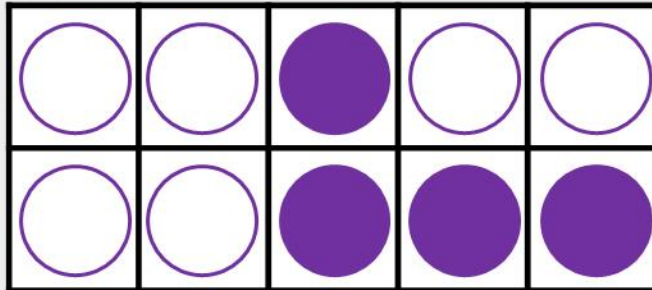
I can use the numbers 14, 7  
and 8 to write a fact family  
for these 10 frames.



Reasoning 1

Amanda says,

I can use the numbers 14, 7  
and 8 to write a fact family  
for these 10 frames.

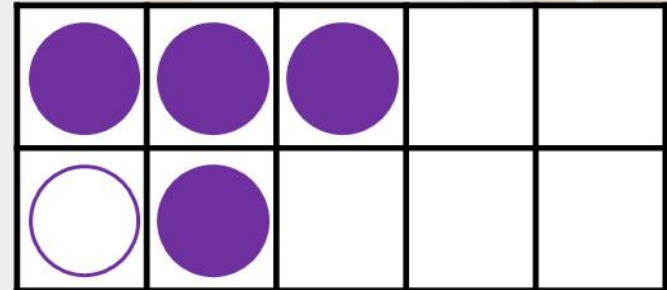
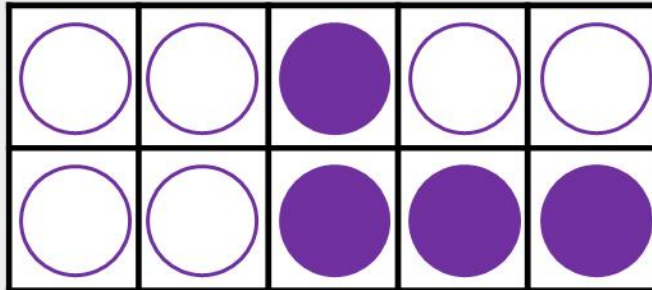


Amanda is incorrect. She should use...

Reasoning 1

Amanda says,

I can use the numbers 14, 7 and 8 to write a fact family for these 10 frames.



**Amanda is incorrect. She should use 15, 8 and 7 to create a fact family.**