Skill-I can work out fact families using addition and subtraction up to 20.

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

Rapid Recall

Number bonds game

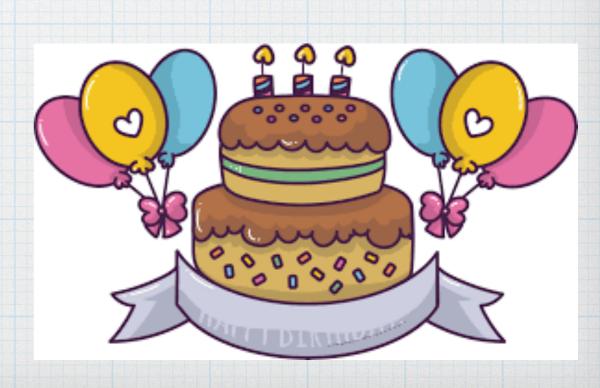
Teacher stands on the middle.
Throw the ball to children saying a number, they have to say the correct number that goes with it to make either 10 or 20.

Big Question.....

Caitlyn is double Rowan's age.

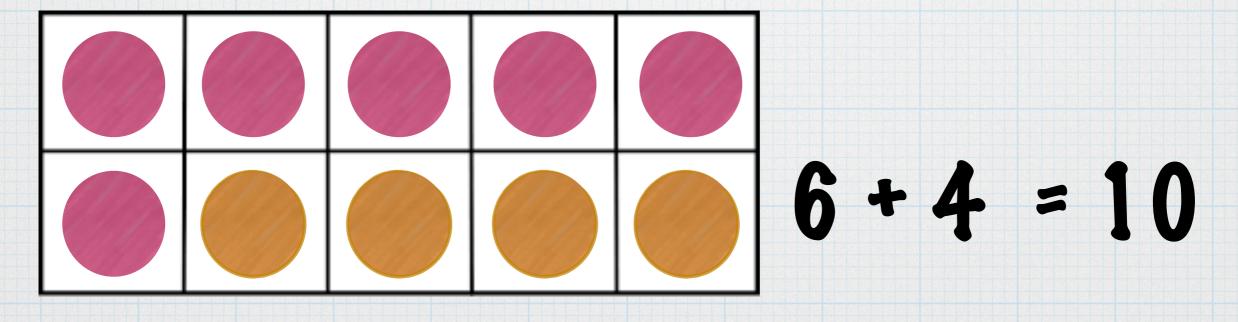
Next year, Caitlyn will be 4 years older than Rowan.

How old could Caitlyn be?



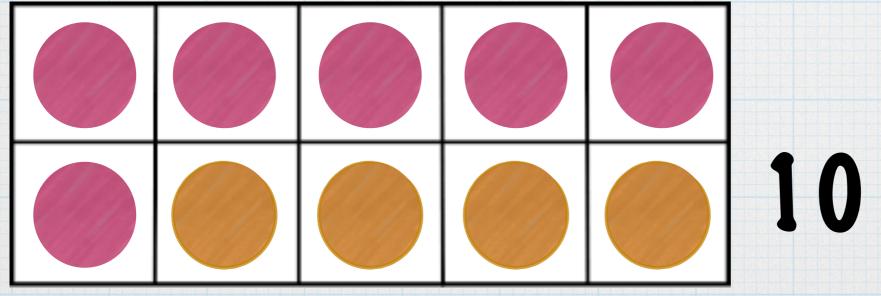
Using a tens frame and 10 counters, how many addition calculations can you make in 2 minutes?

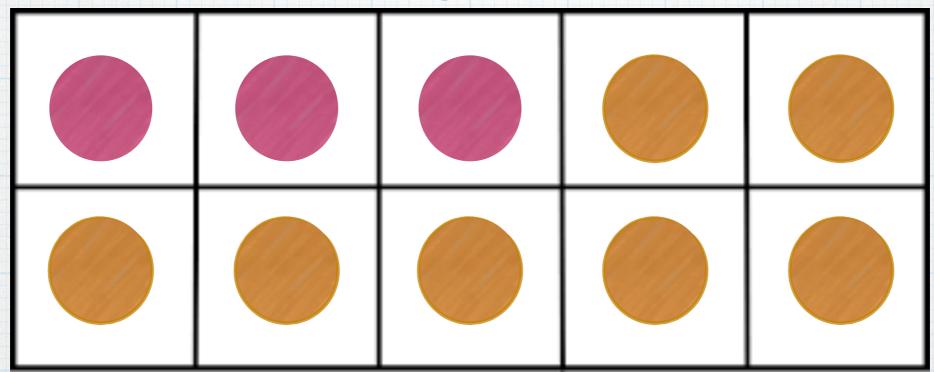
You do not have to use all 10 counters every time!



Using a tens frame and 10 counters, how many su subtraction calculations can you make in 2 minutes?

You do not have to use all 10 counters every time!

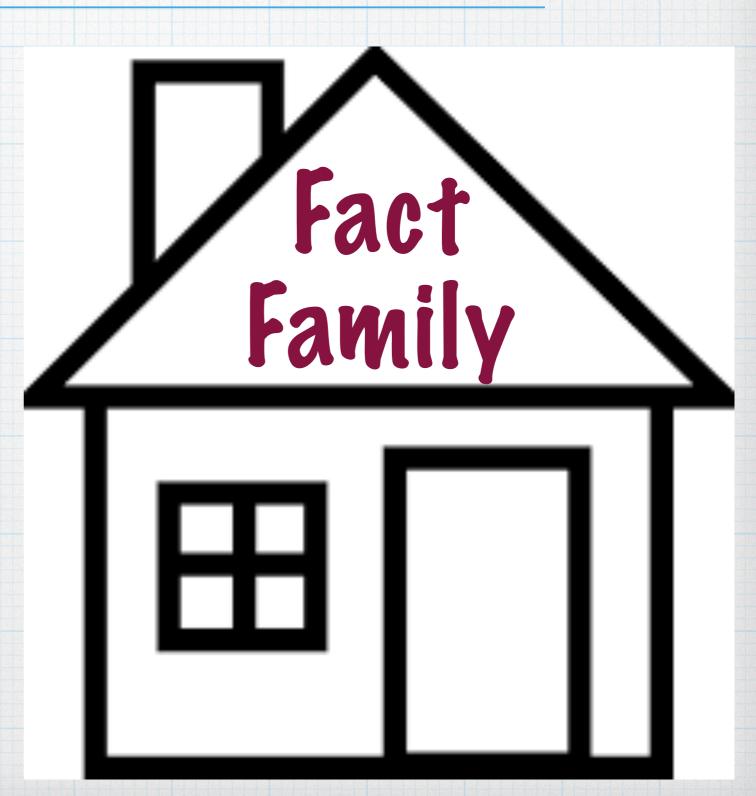




Write 2 addition facts about this tens frame.

Write 2 subtraction facts about this tens frame.

What do you notice about these number sentences?



Independent Activity

Using the numbers 9, 5 and 4 can you.....

- * Write 2 addition number sentences.
- * Write 2 subtraction number sentences.
- * Show your number sentences as whole-part models.
- * Show your number sentences on the tens frame.

Skill-I can work out fact families using addition and subtraction up to 20.

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

Rapid Recall

https://www.youtube.com/watch?v=3mUuvdKFfmk

Play this game but instead of rock, paper, scissors, the teacher will shout out a number bond and the child who answers first wins and the other child goes to the back of their line.

Play this outside if weather allows.

Big Question.....

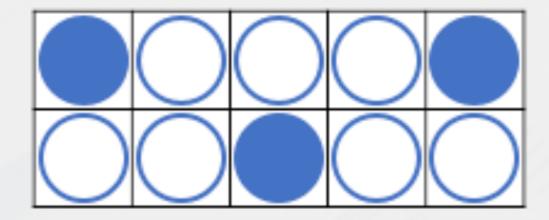
Which number sentence does not match the counters in these ten frames?

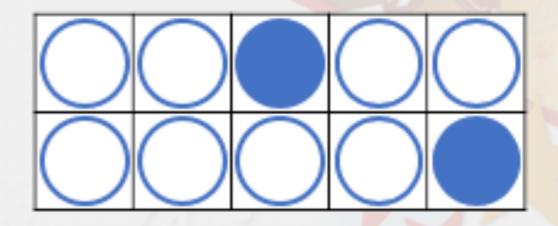
$$15 + 5 = 20$$

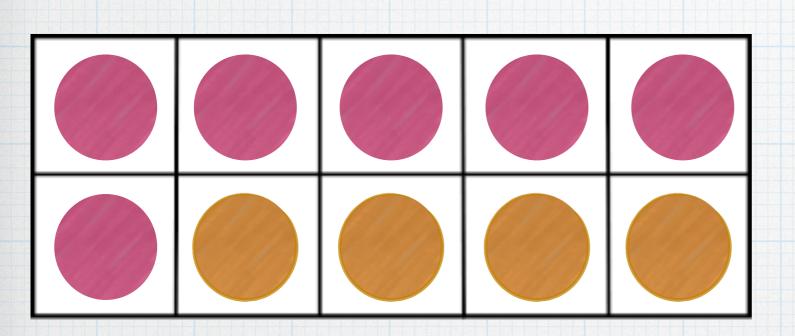
$$5 + 15 = 20$$

$$20 - 5 = 15$$

$$15 - 20 = 5$$



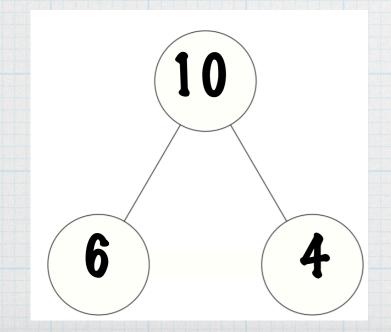




How else can we represent this number sentence?

$$6+4 = 10$$

Whole-part Model



Fact Family....

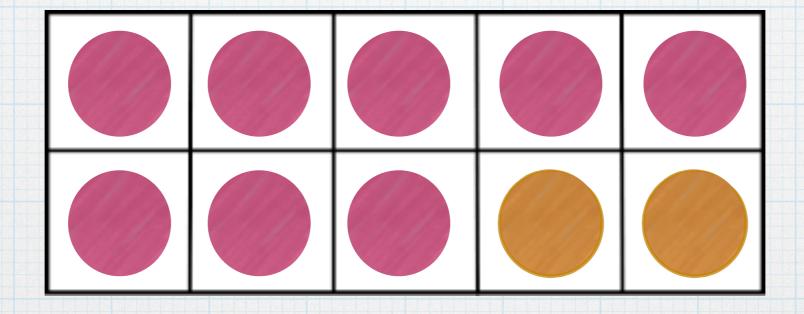
$$6 + 4 = 10$$
 $4 + 6 = 10$
 $10 - 4 = 6$
 $10 - 6 = 4$

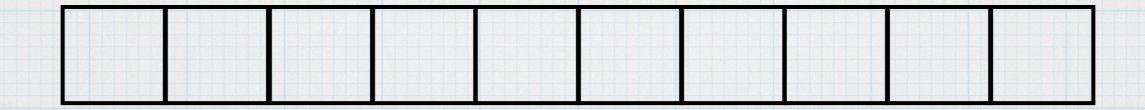
Orasa Bar Model.....

$$6+4 = 10$$



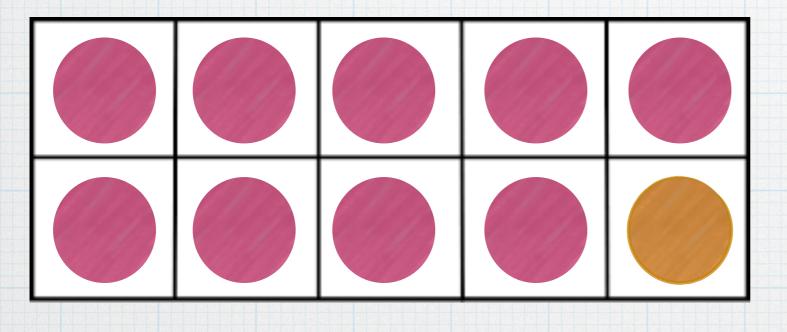
Can you represent the number sentence below in a bar model?

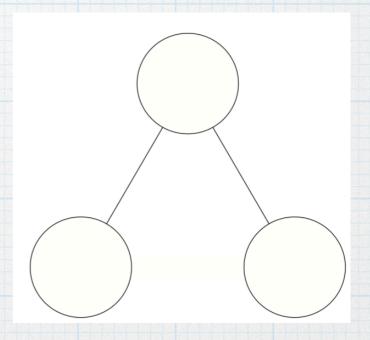




Can you represent the number sentence below in a bar model and a whole part model?

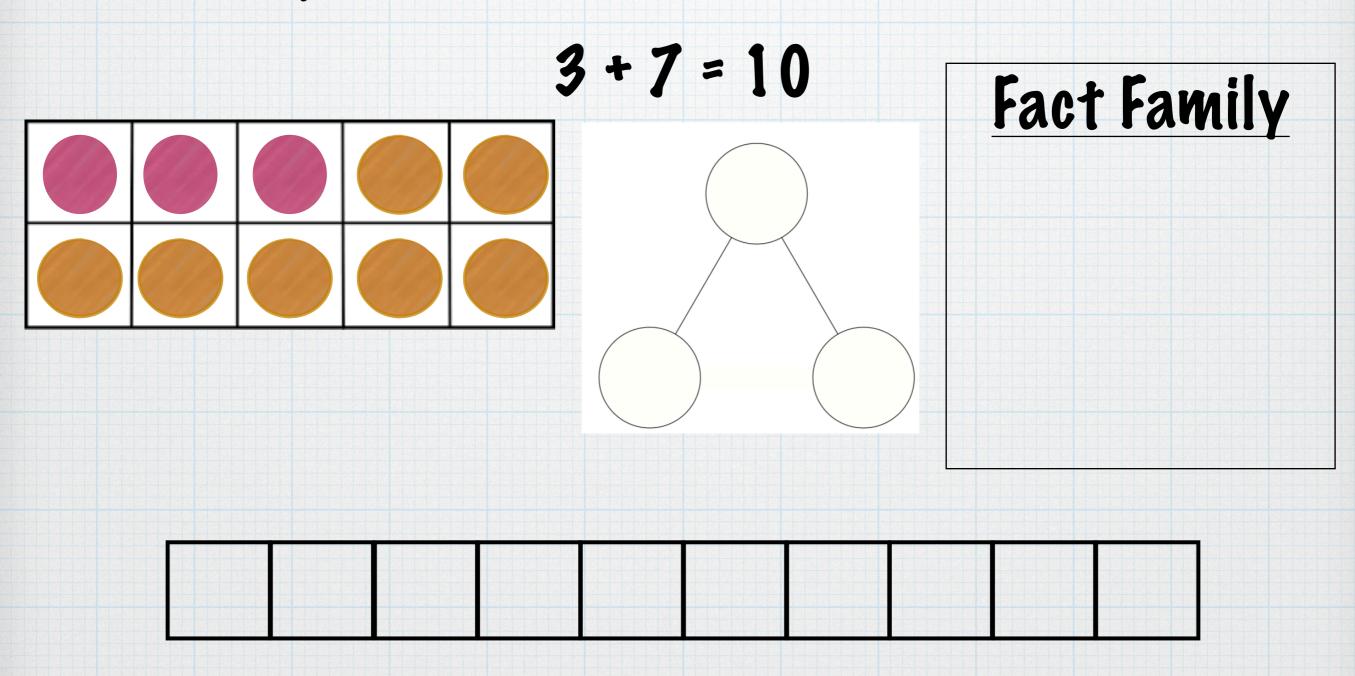
$$1 + 9 = 10$$





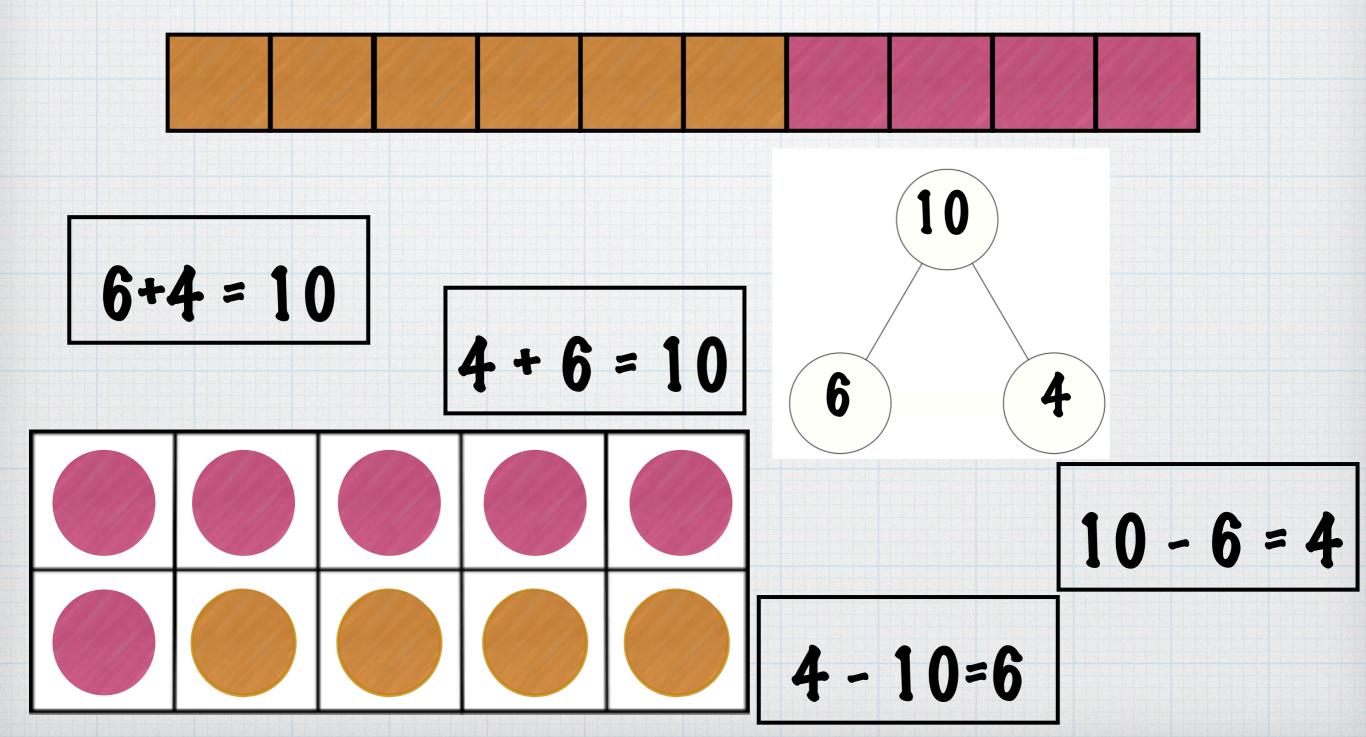


Can you represent the number sentence below in a bar model, a whole part model and write the 4 fact families?



Reasoning and problem solving

Which representation is wrong and why?



Skill-I can work out fact families using addition and subtraction up to 20.

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

Rapid Recall

https://www.topmarks.co.uk/maths-games/daily10

Today's question....

6b. True or false?

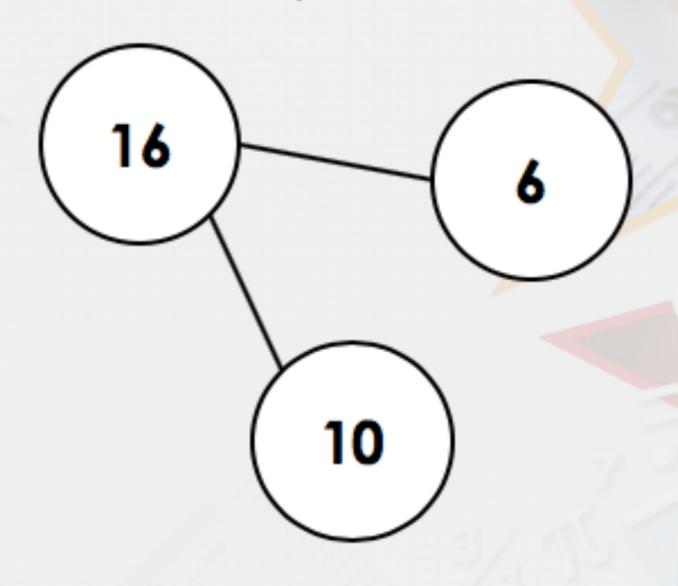
If
$$11 + 6 = 17$$
, then $17 + 6 = 11$.

6a. True or false?

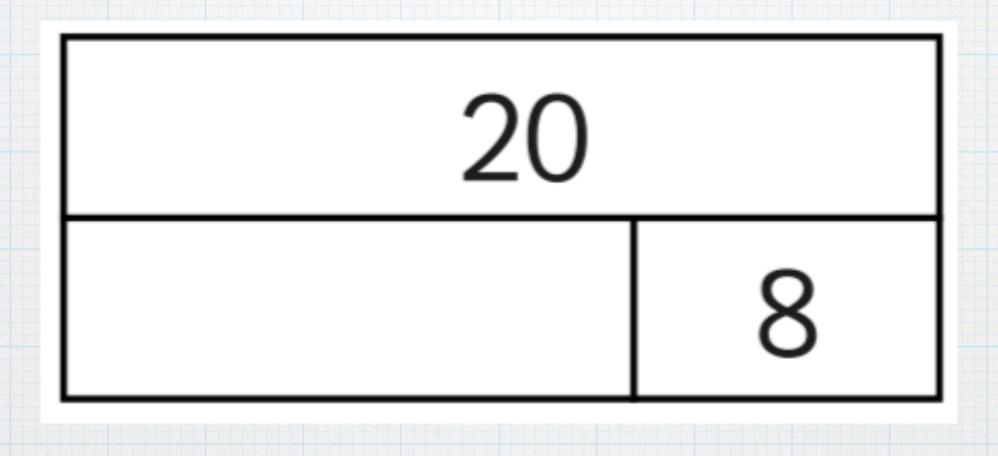
If
$$18 + 2 = 20$$
, then $20 + 2 = 18$.

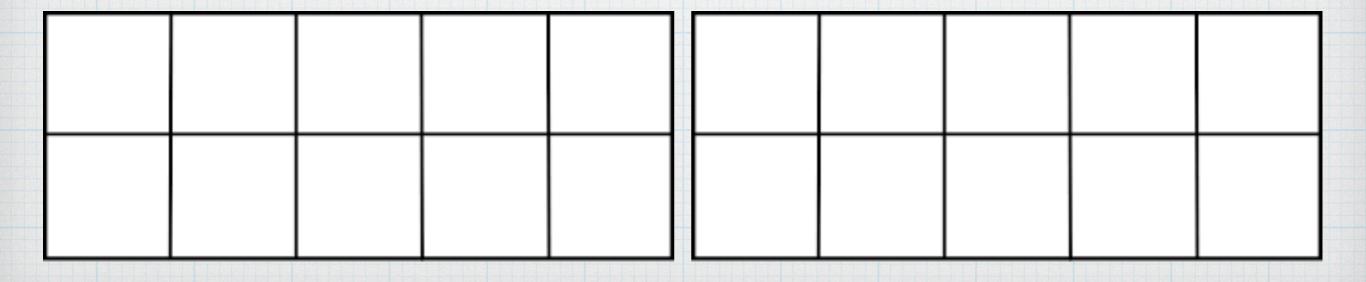
Varied Fluency 4

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

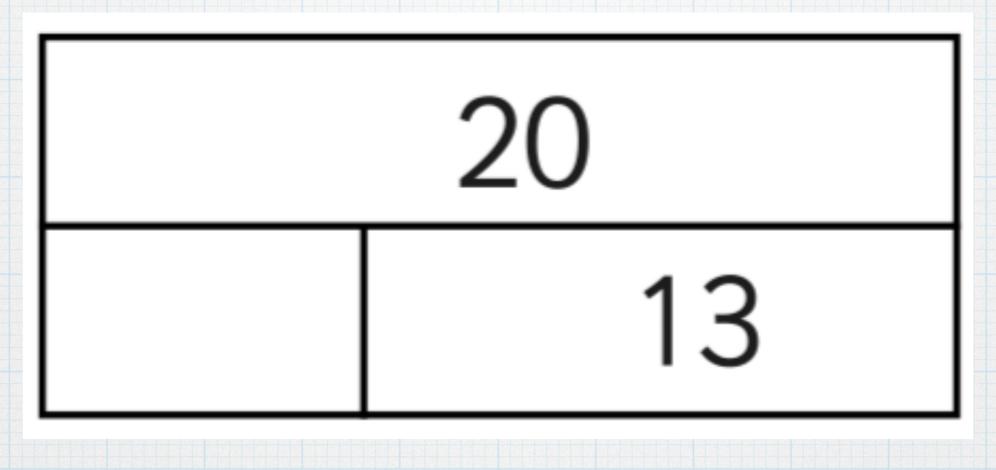


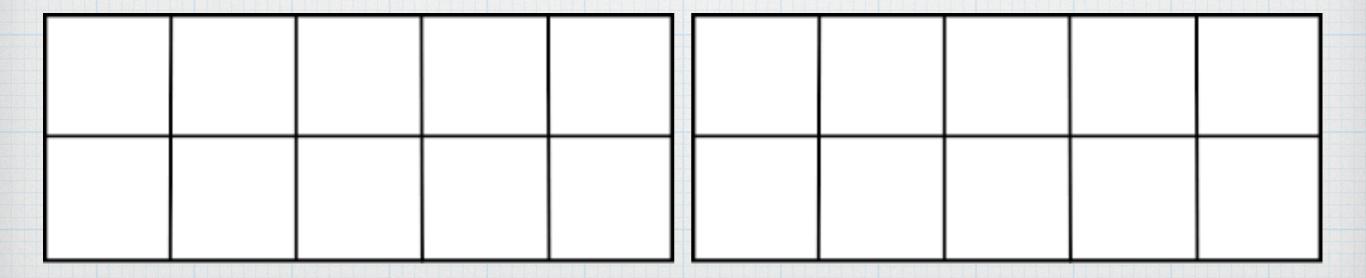
How can we use the tens frame to complete the bar model?





Use your tens frame to complete the bar model. Write the fact families that go with the bar model.





Skill-I can work out fact families using addition and subtraction up to 20.

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

Rapid Recall

https://www.mathplayground.com/number_bonds_20.html

Today's Question

I am thinking of a number.

If you double it.....

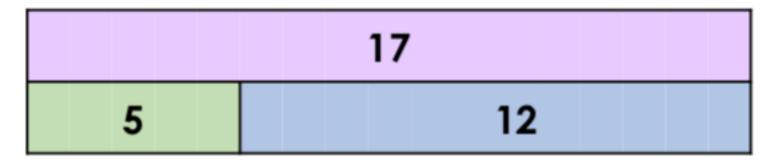
Then add 2.....

and subtract 5.....

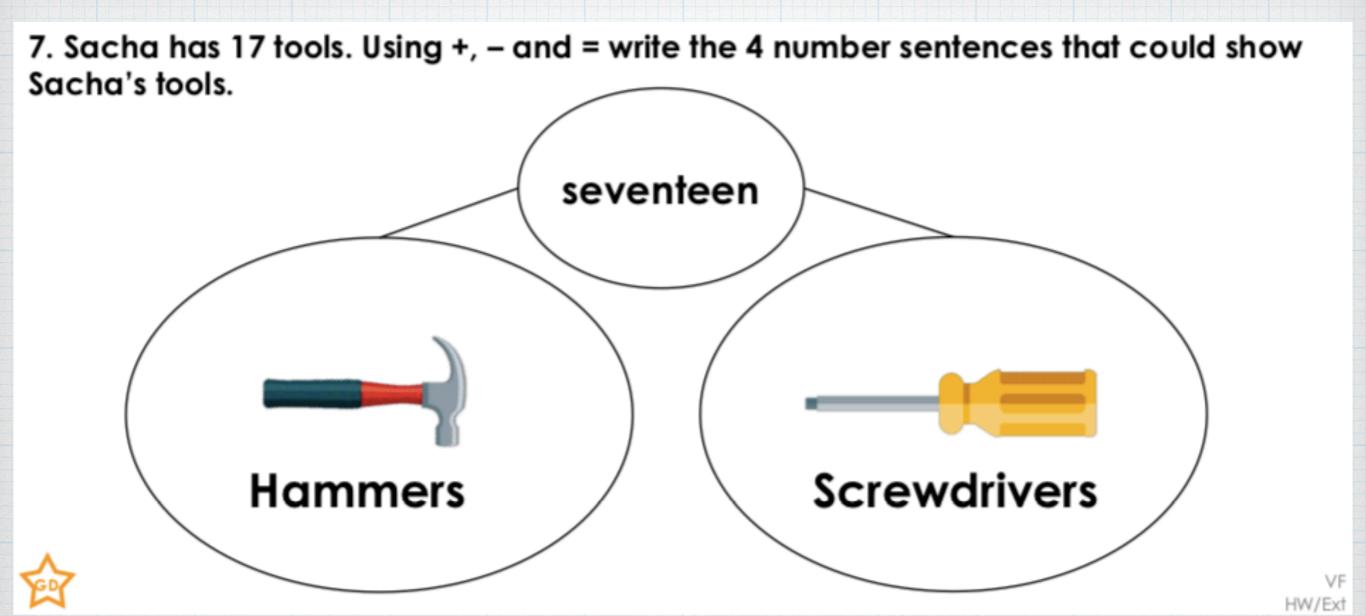
You get 17!

What number am I think of???

5. Use the bar model to complete the number sentences below.







How many fact families can you find in 10 minutes?

Skill-Ican compare number sentences

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

Rapid Recall

https://www.topmarks.co.uk/number-facts/number-factfamilies

Fact families up to 10 or 20

Big Question.....

Teddy is checking Dora's work but doesn't do an inverse calculation.



These calculations can't be right.

$$24 + 6 = 84$$

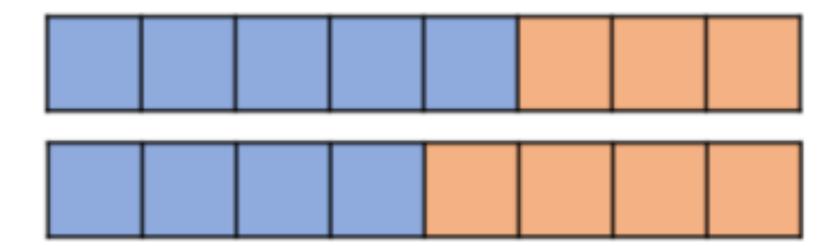
 $25 - 23 = 12$

$$18 - 3 = 21$$

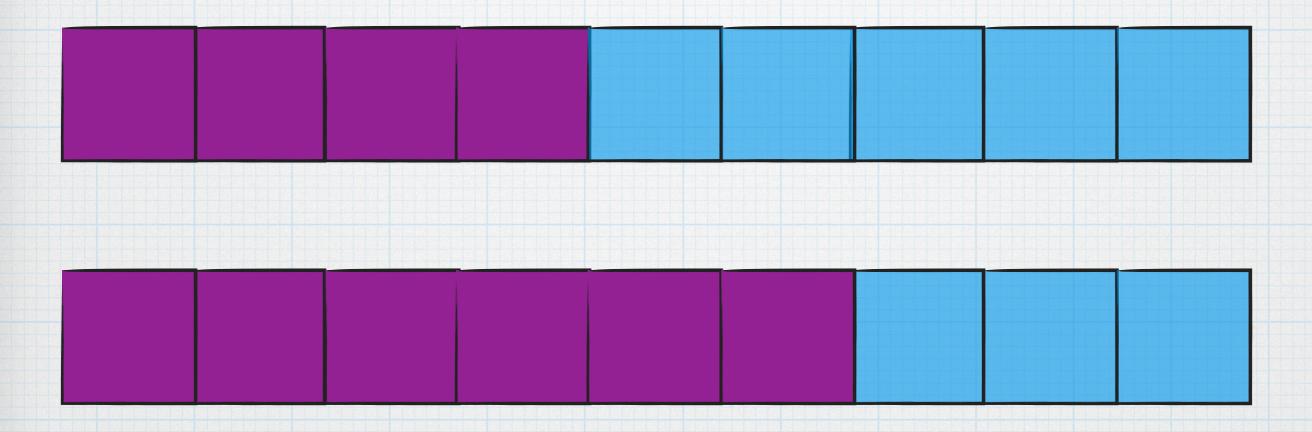
How might he know?

What errors have been made in each calculation?

How can we use the following representation to prove that 5 + 3 = 4 + 4?



Praw bar models to prove: 4+5=6+3

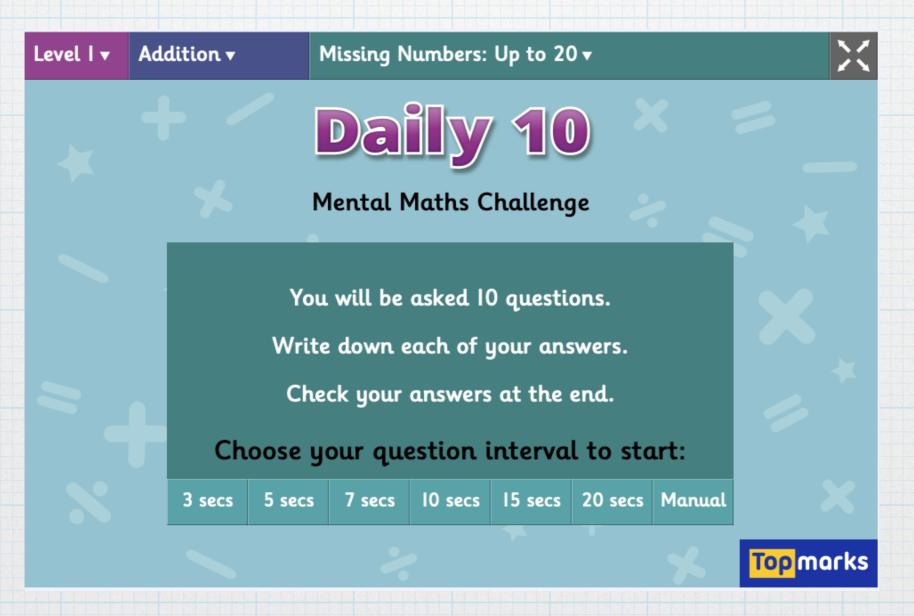


Skill-Ican use related facts

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

Rapid Recall

https://www.topmarks.co.uk/maths-games/daily10



Big Question.....

Both missing numbers are less than 10

How many different possible answers can you find?

Use base 10 to show me what is similar and different about these sums:

$$40 + 50 = 90$$

Use base 10 to show me what is similar and different about these sums:

Use base 10 to complete these sums:

What is different? What is the same?

Complete these sums:

$$60 + 10 =$$

Show your answer using base 10 and part whole models

Complete this sum:

$$4 = 10 - 6$$

Show your answer using base 10 and part whole models

Learning partners

I have 3 blue pens and 4 black pens. Altogether I have 7 pens. Tommy has 30 blue pens and 40 black pens. How many pens does he have in total?

Use concrete apparatus to show your thinking.





Skill-Iknowbonds to 100 (tens)

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

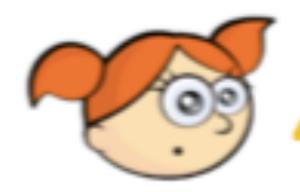
Rapid Recall

Label a metre stick from 0 - 100.

Practise counting on and back in 10s. Add and remove labels as necessary.

Big question....

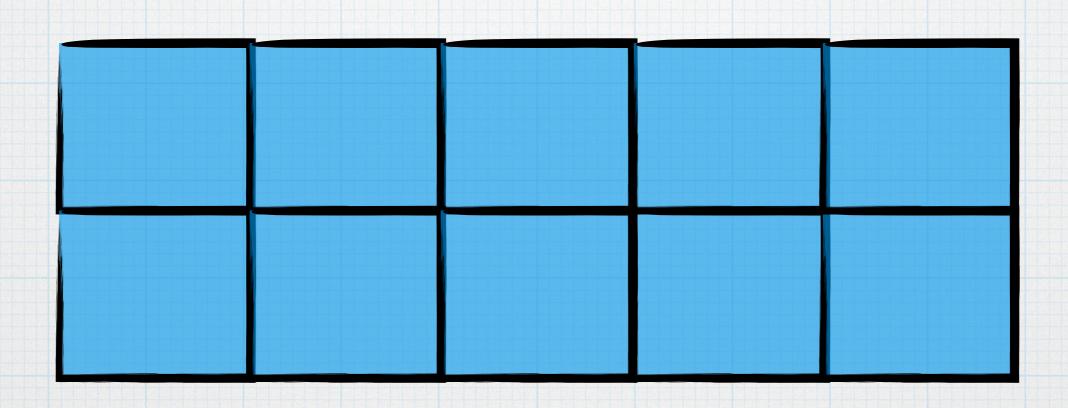
Alex says,



If I know 9 + 1 = 10, I can work out 90 + = 100

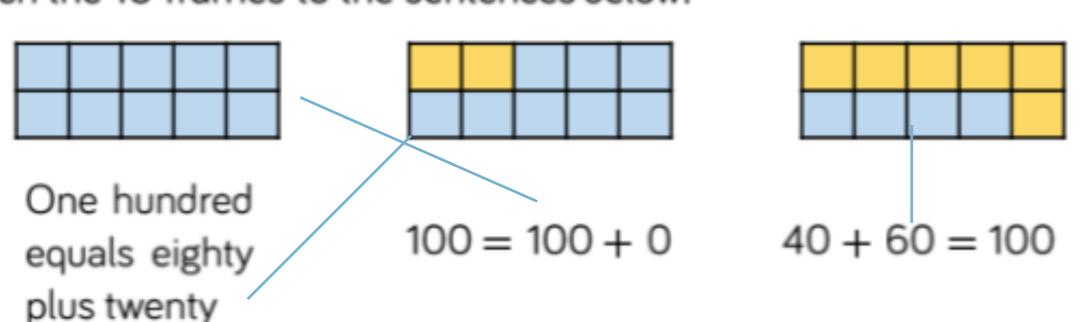
Find the missing number and explain how Alex knows.

Can we use a 10 frame to represent 100? Explain your answer.



Learning partners

Match the 10 frames to the sentences below:



Could we have used our number bonds to 10 to help?
How?

Complete these sums:

What is the same? What is different?

Skill-Ican use bonds to 100 (tens)

- * Fact Families
- * Compare number sentences
- * Check calculations
- * Related facts

Rapid Recall

https://www.ictgames.com/mobilePage/hundredHunt/

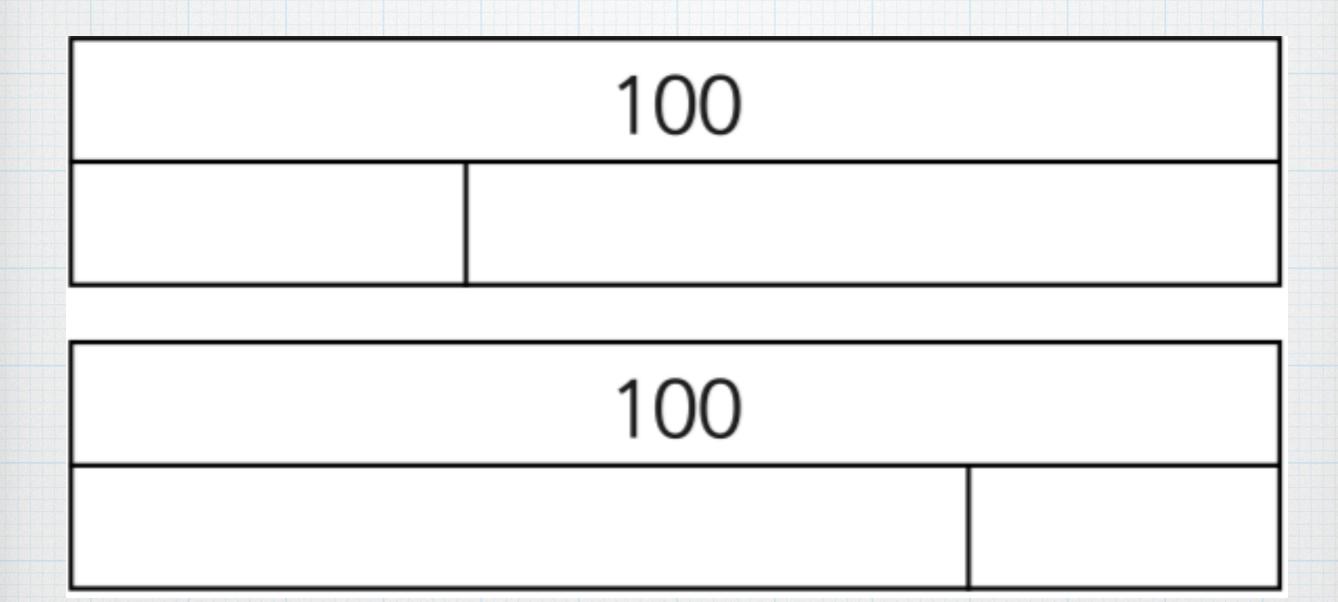
Big Question

If I count in 3's I will land on 19.

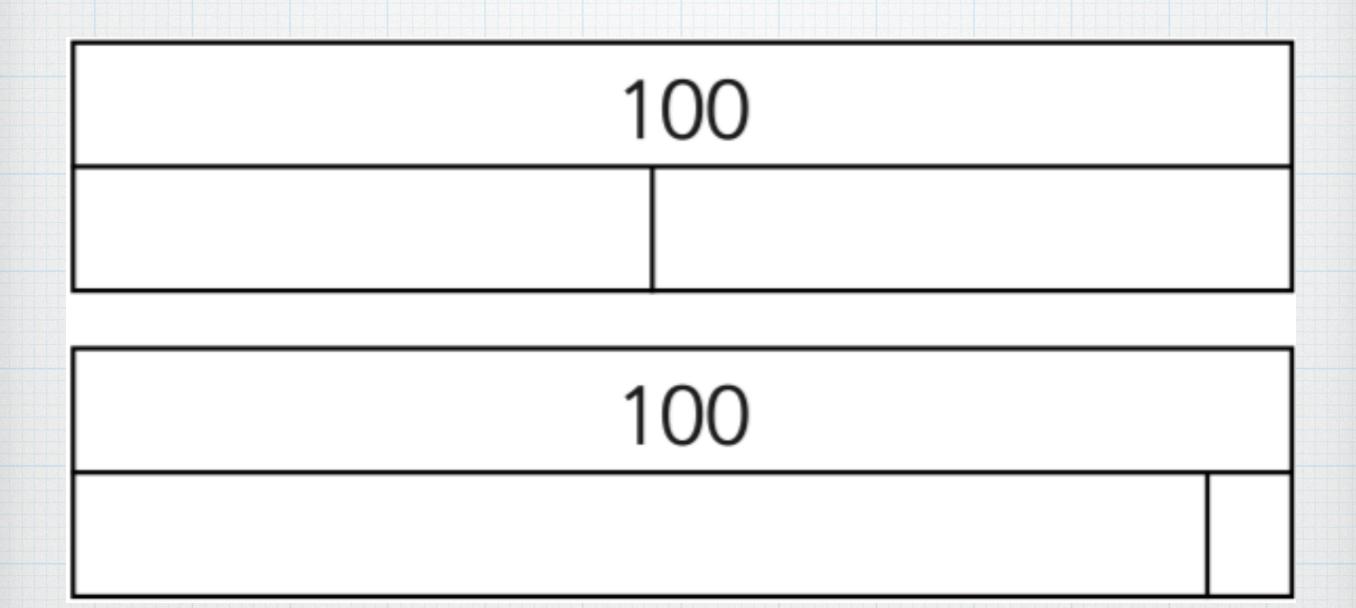
True or False?

Explain your answer.

Learning Partners



Learning Partners



Use any extra time for problem solving/reasoning activities.