

## Near Facts

### Adult Guidance with Question Prompts



Children apply their known number facts to find near number facts. They complete missing number problems by using their known facts. They then suggest which appropriate known facts they could use to help complete calculations.

Is  $16 + 4$  a number fact you know?

How can you use that to solve  $16 + 3$ ?

Show me with equipment.

Is  $15 - 5$  a number fact you know?

How can you use that to solve  $15 - 4$ ?

Show me with equipment.

What number fact do you know that will help you to solve each calculation?

Prove it to me with equipment.

## Near Facts



Fill in the missing numbers.

$$16 + 4 = 20$$

$$4 + 16 = 20$$

$$16 + 3 = \square$$

$$3 + 16 = \square$$

$$10 = 15 - 5$$

$$5 = 15 - 10$$

$$\square = 15 - 4$$

$$4 = 15 - \square$$

What number facts could you use to solve these?

$$7 + 6 =$$

$$19 - 10 =$$

$$16 - 5 =$$

$$9 + 2 =$$

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Children apply their known number facts to find near number facts. In this activity, children explain how number facts can be used to help solve near facts.

What is  $8 + 8$ ?

How is  $8 + 9$  similar?

Show me with equipment.

How can we use  $8 + 8$  to help?

Show me with equipment.

What other calculation is  $8 + 8$  near to?

How could  $8 + 8$  be used to help solve it?

Prove it using equipment.

How is  $11 - 6$  similar to  $10 - 6$ ?

Prove it.

How can you use  $10 - 6$  to help solve  $11 - 6$ ?

Show me using equipment.

What mistake did Karl make?

What should Karl have said?

## Near Facts



$$8 + 9 =$$

I used the fact  $8 + 8$  to help me solve this calculation.

**Kim**



**Explain how Kim used this fact to help.**

What other calculation could  $8 + 8$  be used to help solve?

$$10 - 6 = 4$$

$$11 - 6 =$$

10 subtract 6 is 4 so 11 subtract 6 must be 3.

**Karl**



**Explain the mistake Karl has made.**

What should he have said?

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Children apply their known numbers facts to find near number facts. In this activity, children make ten from a set of numbers. They then use these pairs to help find pairs to make 11 and 12. This problem allows children to explain their reasoning when using known facts to find near facts.

**What goes with this (pick a counter) number to make ten?**

**Which numbers can't you use? Why?**

**What is different when making 11?**

**How can you use the pairs you had before to help?**

**Which number will change?**

**Can more than one number change? Prove it!**

**Is there any number you can't use?**

**What is different when making 12 compared to 11?**

**How can you use your pairs for 11 to help find pairs for 12?**

**Which numbers can't you use? Why?**

## Near Facts



You have 10 counters numbered from 1 to 10.



**Put them into pairs to make 10.**

Use these pairs to help you find pairs to make 11.

Now, use these pairs to help you find pairs to make 12.

