

Fact Family Fun

Use addition and subtraction facts that belong together.

GRADE 2 • 2.CE.1.h

2.CE.1.h "Use inverse relationships to write all related facts connected to a given addition or subtraction fact model within 20 (e.g., given a model for $3 + 4 = 7$, write $4 + 3 = 7$, $7 - 4 = 3$, and $7 - 3 = 4$)."

NAME _____

DATE _____

TURN FACTS AROUND

The same three numbers can make two addition facts and two subtraction facts. Turn the addends around, then subtract each part from the total.

WORKED EXAMPLE

Kira has 5 red kites and 8 blue kites. Write all the related facts.

1. Start with $5 + 8 = 13$.
2. Turn the addends around: $8 + 5 = 13$.
3. Take away 8: $13 - 8 = 5$.
4. Take away 5: $13 - 5 = 8$.

Answer: $5 + 8 = 13$; $8 + 5 = 13$; $13 - 8 = 5$; $13 - 5 = 8$

PRACTICE 5 problems

- 1** A bin has 2 orange blocks and 6 green blocks. Write all four related facts.

ANSWER _____

- 2** A crayon box has 7 red crayons and 3 blue crayons. Write all four related facts.

ANSWER _____

- 3** A toy shelf has 4 trucks and 10 cars. Write all four related facts.

ANSWER _____

- 4** A puppy has 12 treats. It eats 1 treat and has 11 treats left. Write all four related facts.

ANSWER _____

- 5** A snack plate has 6 apple slices and 9 cheese cubes. Write all four related facts.

ANSWER _____

APPLY IT Show your work

- 1** Noah has 9 robot stickers. His friend gives him 7 more robot stickers. Noah now has 16 robot stickers. Write all four related facts.

WORK SPACE

ANSWER _____

- 2** There are 18 cookies on a plate. Seven cookies are eaten, so 11 cookies are left. Write all four related facts.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A party has 20 balloons. Fourteen are yellow and 6 are purple. Write all four related facts. Then write one sentence that tells how addition and subtraction are connected.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A bin has 2 orange blocks and 6 green blocks. Write all four related facts.	$2 + 6 = 8$; $6 + 2 = 8$; $8 - 2 = 6$; $8 - 6 = 2$
2	A crayon box has 7 red crayons and 3 blue crayons. Write all four related facts.	$7 + 3 = 10$; $3 + 7 = 10$; $10 - 7 = 3$; $10 - 3 = 7$
3	A toy shelf has 4 trucks and 10 cars. Write all four related facts.	$4 + 10 = 14$; $10 + 4 = 14$; $14 - 4 = 10$; $14 - 10 = 4$
4	A puppy has 12 treats. It eats 1 treat and has 11 treats left. Write all four related facts.	$1 + 11 = 12$; $11 + 1 = 12$; $12 - 1 = 11$; $12 - 11 = 1$
5	A snack plate has 6 apple slices and 9 cheese cubes. Write all four related facts.	$6 + 9 = 15$; $9 + 6 = 15$; $15 - 6 = 9$; $15 - 9 = 6$

PART 2 • APPLY IT

- $9 + 7 = 16$; $7 + 9 = 16$; $16 - 9 = 7$; $16 - 7 = 9$ The two parts are 9 and 7, and the total is 16. Use those three numbers to make two addition facts and two subtraction facts.
- $7 + 11 = 18$; $11 + 7 = 18$; $18 - 7 = 11$; $18 - 11 = 7$ The parts are 7 eaten cookies and 11 cookies left. The total is 18.

CHALLENGE

$14 + 6 = 20$; $6 + 14 = 20$; $20 - 14 = 6$; $20 - 6 = 14$. Adding the two parts makes the total, and subtracting one part from the total gives the other part.

Accept the four related facts in any order. Students must include two addition facts and two subtraction facts using the same three numbers.