

Fact Families – 8 Facts

1. Match each representation with a related fact from the same family. Write another related fact in the space provided.



$$8 - 3 = 5$$



$$2 + 4 = 6$$



$$6 + 1 = 7$$



VF
HW/Ext

2. Complete the sentence to represent the calculation. Complete the related facts.

$$7 = 2 + 5$$



$$\boxed{7} - \boxed{} = \boxed{}$$

There were animals eating.

$$\boxed{} + \boxed{} = \boxed{}$$

were dogs and were cats.

$$\boxed{} - \boxed{} = \boxed{}$$



VF
HW/Ext

3. Tick the calculations below that are not related to the picture.



$$6 + 4 = 10$$

$$10 + 4 = 6$$

$$6 - 4 = 10$$

$$10 - 4 = 6$$

$$4 + 6 = 10$$

$$10 - 6 = 4$$

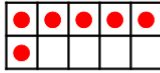
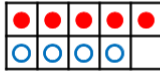
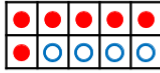

Explain how you know.



RPS
HW/Ext

Fact Families – 8 Facts

4. Match each tens frame with a related fact from the same family. Write another related fact in the space provided.

A		<div style="border: 1px solid blue; padding: 5px; display: inline-block;">$9 - 4 = 5$</div> → <div style="border: 1px solid magenta; width: 100px; height: 30px; display: inline-block;"></div>
B		<div style="border: 1px solid blue; padding: 5px; display: inline-block;">$3 + 5 = 8$</div> → <div style="border: 1px solid magenta; width: 100px; height: 30px; display: inline-block;"></div>
C		<div style="border: 1px solid blue; padding: 5px; display: inline-block;">$0 + 6 = 6$</div> → <div style="border: 1px solid magenta; width: 100px; height: 30px; display: inline-block;"></div>
D		<div style="border: 1px solid blue; padding: 5px; display: inline-block;">$6 = 10 - 4$</div> → <div style="border: 1px solid magenta; width: 100px; height: 30px; display: inline-block;"></div>



VF
HW/Ext

5. Complete the sentence to represent the calculation. Complete the related facts.

$8 = 5 + 3$

There were children playing.

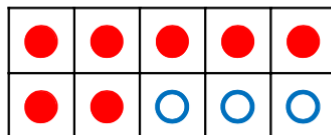
were girls and were boys.

<input style="width: 30px;" type="text"/>	-	<input style="width: 30px;" type="text"/>	=	<input style="width: 30px;" type="text"/>
8	-	<input style="width: 30px;" type="text"/>	=	<input style="width: 30px;" type="text"/>
<input style="width: 30px;" type="text"/>	+	<input style="width: 30px;" type="text"/>	=	<input style="width: 30px;" type="text"/>
<input style="width: 30px;" type="text"/>	+	<input style="width: 30px;" type="text"/>	=	<input style="width: 30px;" type="text"/>
8	=	<input style="width: 30px;" type="text"/>	+	<input style="width: 30px;" type="text"/>
<input style="width: 30px;" type="text"/>	=	<input style="width: 30px;" type="text"/>	-	<input style="width: 30px;" type="text"/>
<input style="width: 30px;" type="text"/>	=	<input style="width: 30px;" type="text"/>	-	3



VF
HW/Ext

6. Tick the calculations below that are not related to the tens frame.



$7 + 3 = 10$	$10 = 7 - 3$	$10 - 7 = 3$	$3 + 7 = 10$	$3 = 10 - 7$
$10 - 3 = 7$	$10 = 7 + 3$	$7 - 3 = 10$	$10 = 3 + 7$	$7 = 10 - 3$

Explain how you know.



RPS
HW/Ext

Fact Families – 8 Facts

7. Match each fact with a related fact from the same family. Write another related fact in the space provided.

A

$$10 = 3 + 7$$

$$3 = 9 - 3 - 3$$

B

$$2 = 10 - 8$$

$$1 = 6 - 5$$

C

$$3 + 6 = 9$$

$$4 + 4 + 2 = 10$$

D

$$6 = 1 + 5$$

$$10 - 3 = 7$$



VF
HW/Ext

8. Write a story to represent the calculation below. Complete some related facts.

$$10 = 4 + 4 + 2$$

<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	=	<input type="text"/>
<input type="text"/>	-	<input type="text"/>	=	<input type="text"/>		
<input type="text"/>	=	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>		
<input type="text"/>	=	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
<input type="text"/>	=	<input type="text"/>	-	<input type="text"/>		
<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>



VF
HW/Ext

9. Tick the calculations below that are not related.

$$9 = 2 + 2 + 5$$

$$9 - 4 = 5$$

$$5 = 9 - 2 - 2$$

$$4 + 5 = 9$$

$$9 - 2 = 5$$

$$5 = 9 - 4$$

$$9 - 5 = 2$$

$$2 + 5 = 9$$

$$2 = 9 - 5 - 2$$

$$2 + 5 = 9$$

$$9 - 2 - 5 = 2$$

Explain how you know.



RPS
HW/Ext

ANSWERS
Homework/Extension
Fact Families – 8 Facts

Developing

1. A: $2 + 4 = 6$; Possible answers: $4 + 2 = 6$; $6 - 4 = 2$; $6 - 2 = 4$
B: $6 + 1 = 7$; Possible answers: $1 + 6 = 7$; $7 - 6 = 1$; $7 - 1 = 6$
C: $8 - 3 = 5$; Possible answers: $8 - 5 = 3$; $3 + 5 = 8$; $5 + 3 = 8$
2. There were 7 animals eating. 5 were dogs and 2 were cats.
 $7 - 2 = 5$; $5 + 2 = 7$; $7 - 5 = 2$
3. $10 + 4 = 6$ and $6 - 4 = 10$; These should equal $10 + 4 = 14$ and $6 - 4 = 2$

Expected

4. A: $0 + 6 = 6$; Various answers, for example: $6 - 6 = 0$
B: $9 - 4 = 5$; Various answers, for example: $4 + 5 = 9$
C: $6 = 10 - 4$; Various answers, for example: $10 = 6 + 4$
D: $3 + 5 = 8$; Various answers, for example: $3 = 8 - 5$
5. There were 8 children playing. 5 were girls and 3 were boys; There were 8 children playing. 3 were girls and 5 were boys. $8 - 5 = 3$; $8 - 3 = 5$; $5 + 3 = 8$; $3 + 5 = 8$; $8 = 3 + 5$; $3 = 8 - 5$; $5 = 8 - 3$
6. $10 = 7 - 3$ and $7 - 3 = 10$; These should equal $5 = 7 - 3$ and $7 - 3 = 5$

Greater Depth

7. A: $10 - 3 = 7$; Various answers, for example: $3 + 7 = 10$
B: $4 + 4 + 2 = 10$; Various answers, for example: $10 - 2 - 4 = 4$
C: $3 = 9 - 3 - 3$; Various answers, for example: $3 + 3 + 3 = 9$
D: $1 = 6 - 5$; Various answers, for example: $5 + 1 = 6$
8. Various answers, for example: There were 10 sweets. 4 were mints, 4 were chocolate and 2 were chews. Various answers, for example: $10 - 4 - 4 = 2$; $10 - 2 = 8$; $4 = 10 - 4 - 2$; $8 + 2 = 10$; $4 = 10 - 4 - 2$; $4 = 10 - 6$; $4 + 4 + 2 = 10$
9. $9 - 2 = 5$; $9 - 5 = 2$; $2 + 5 = 9$; These should equal $9 - 2 = 7$; $9 - 5 = 4$; $2 + 5 = 7$