



Age Puzzle



Watch video

MathApex

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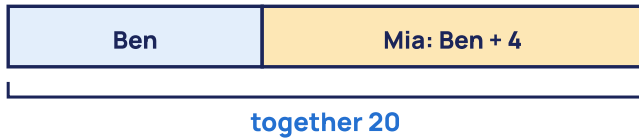
Date: _____

From the video

Together 14, one is 2 years older $\rightarrow 14 - 2 = 12$, $12 \div 2 = 6$ and 8

1 Now it's your turn!

Mia is 4 years older than Ben. Together they are 20. How old is Ben?



Take away the difference, then both are the same age: halve it.

$$20 - 4 = \boxed{} \quad 16 \div 2 = \boxed{} \text{ years}$$

3 Twice as old.

a) Grandma is twice as old as Mama. Together they are 27. How old are they both?

Mama: Grandma:

b) Papa is twice as old as the child. Together they are 36. How old are they both?

Child: Papa:

5 Think backwards.

Check every task: are the difference and the sum right?

6 Strip diagrams.



Write the ages in the strips.

2 Together and older than.

a) Anna is 8 years older than Max. Together they are 24. How old is Max?

years

b) Lina is 6 years older than Tom. Together they are 30. How old is Tom?

years

c) Leo is 4 years older than Mia. Together they are 16. How old is Mia?

years

4 Trying with a table.

Anna is 8 years older than Max, together 24. Try it in the table.

Max	Anna	together
4		
7		
8		

★ Brain teaser

Three siblings: the middle child is 3 years older than the youngest, the oldest is 2 years older than the middle one. Together they are 25. How old is the youngest?



Age Puzzle

**1 Now it's your turn!**

$20 - 4 = 16$, $16 \div 2 = 8$: Ben 8, Mia 12

2 Together and older than.

$24 - 8 = 16$, $16 \div 2 = 8$: Max 8, Anna 16

$30 - 6 = 24$, $24 \div 2 = 12$: Tom 12, Lina 18

$16 - 4 = 12$, $12 \div 2 = 6$: Mia 6, Leo 10

3 Twice as old.

$27 \div 3 = 9$: Mama 9, Grandma 18

$36 \div 3 = 12$: Child 12, Papa 24

4 Trying with a table.

Max 8, Anna 16, together 24

5 Think backwards.

Check: the difference and the sum must both be right.

★ Brain teaser

youngest 5, middle 8, oldest 10

$25 - 3 - 5 = 15$, $15 \div 3 = 5$.

6 Strip diagrams.

$30 - 6 = 24$, $24 \div 2 = 12$: Tom 12, Lina 18

$27 \div 3 = 9$: Mama 9, Grandma 18

For parents and teachers: This worksheet goes with the video "Age Puzzle" (Math Story 79, Grade 4). Age puzzles: subtract the difference from the sum, then halve. Strip diagrams make this visible.

More Math Stories with video and worksheet: www.mathapex.app/en/math-stories/