



Solving $x + p = q$

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Show the inverse operation and check each answer; final answers in the boxes. One skill: **solving $x + p = q$** .

WORKED EXAMPLE

Undo addition with **subtraction**, on **both sides**. $x + 25 = 60 \rightarrow x = 60 - 25 = \mathbf{35}$. Check: $35 + 25 = 60 \checkmark$ A failed check almost always means you added instead of subtracting.

1. Solve $x + 6 = 15$.

FLUENCY

Show your thinking

Answer

2. Solve $x + 12 = 30$.

FLUENCY

Show your thinking

Answer

3. Solve $x + 21 = 21$.

FLUENCY

Show your thinking

Answer

4. Solve $x + \frac{1}{3} = \frac{5}{6}$.

APPLICATION

Show your thinking

Answer

5. Solve $x + 3.75 = 9$.

APPLICATION

Show your thinking

Answer

6. Solve $x + 25 = 60$ and check your answer.

APPLICATION

Show your thinking

Answer

7. A book has 112 pages. Sam has read 47. Write an equation for the number x still to read, then solve it and check.

REASONING

Show your thinking

Answer

8. Solve $x + 14 = 14$. Explain why the answer is not 14.

REASONING

Show your thinking

Answer