



Solving $px = q$

GRADE 6 MATH

Name _____

Date _____

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

WORKED EXAMPLE

Undo multiplication with **division**, on **both sides**. $9x = 81 \rightarrow x = 81 \div 9 = 9$. Check: $9(9) = 81$ ✓ Ask what the number is **DOING** to x — multiplying, so divide.

1. Solve $6x = 42$.

FLUENCY

Show your thinking

Answer

2. Solve $9x = 81$.

FLUENCY

Show your thinking

Answer

3. Solve $15x = 15$.

FLUENCY

Show your thinking

Answer

4. Solve $8x = 20$. Give your answer as a fraction or decimal.

APPLICATION

Show your thinking

Answer

5. Solve $1.5x = 9$.

APPLICATION

Show your thinking

Answer

6. Solve $7x = 0$. Explain your answer.

APPLICATION

Show your thinking

Answer

7. Pencils come in boxes of 5 and a school ordered 85 pencils. Write an equation for the number of boxes x , solve it, and check.

REASONING

Show your thinking

Answer

8. Solve $12x = 30$. Explain why your answer is correct even though it is not a whole number.

REASONING

Show your thinking

Answer