



Solving $px = q$

GRADE 6 MATH

Name _____

Date _____

Work through the sheet in order. Show what you divided both sides by, then check; final answers go in the boxes. One skill: **solving $px = q$** .

WORKED EXAMPLE

Undo multiplication with **division**, on **both sides**. $8x = 72 \rightarrow x = 72 \div 8 = 9$. Check: $8(9) = 72$ ✓ Divide the total BY the coefficient — $8 \div 72$ is upside down.

1. Solve $5x = 35$.

FLUENCY

Show your thinking

Answer

2. Solve $8x = 72$.

FLUENCY

Show your thinking

Answer

3. Solve $12x = 12$.

FLUENCY

Show your thinking

Answer

4. Solve $6x = 15$. Give your answer as a fraction or decimal.

APPLICATION

Show your thinking

Answer

5. Solve $2.5x = 10$.

APPLICATION

Show your thinking

Answer

6. Solve $9x = 0$. Explain your answer.

APPLICATION

Show your thinking

Answer

7. Concert tickets cost \$4 each and a group spent \$52. Write an equation for the number of tickets x , solve it, and check.

REASONING

Show your thinking

Answer

8. Ravi solves $3x = 21$ and gets $x = 18$. Check his answer, explain his error, and give the correct solution.

REASONING

Show your thinking

Answer

9. Solve $10x = 45$. Then explain why the answer does not have to be a whole number.

REASONING

Show your thinking

Answer