

SOLVE THE TAXI FARE PUZZLE

- 1 Start with the story: start fee 4 plus 2 per km equals 16.
- 2 Write the equation: $4 + 2k = 16$.
- 3 Undo by taking 4 from both sides: $2k = 12$.
- 4 Undo by halving both sides: $k = 6$.

 WARM-UP

Write the equation or the value of the letter on each ruled line.

1. Dad doubles a number n , adds 3 and gets 19. Write his equation.
2. Write the value of n that solves Gran's equation $3n - 4 = 11$
3. Write the value of k that solves the family taxi equation $5 + 3k = 26$

Dad equation: _____

Gran n =

Taxi k =

 PRACTICE

- 1 A friend thinks of a number, doubles it, adds 9 and gets 25. What number did the friend start with?
- 2 A family member thinks of a number, trebles it, takes away 8 and gets 19. What number did they start with?
- 3 I think of a number, double it, add 7 and get 17. What number did I start with?
- 4 Twenty-four pupils each put the same amount into a family gift fund and together they reach 120 euro. How much did each pupil put in?
- 5 Five friends each buy a gift of the same price and add a 10 euro card. The total spent is 60 euro. What was the price of each gift?

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. A letter or a box can stand for the unknown number in a story equation.
- b. You can solve $2n + 5 = 17$ by adding 5 first then doubling.
- c. In the equation $n + 25 = 60$, n can be any number we like.
- d. Checking by putting the answer back into the equation shows if it is correct.