

Distinguish a varying quantity from a fixed unknown

NAME	DATE	SCORE / 10
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1 The letter n is used in two ways below.

Rule: A bus goes 50 kilometres each hour, so in n hours it goes $50n$ kilometres.

Equation: $50n = 350$

In which one can n stand for many different numbers?

☐ In neither ☐ In the rule ☐ In both ☐ In the equation

2 The letter n is used in two ways below.

Rule: Pens cost \$2 each, so n pens cost $2n$ dollars.

Equation: $2n = 16$

In which one does n stand for just one particular number?

☐ In the equation ☐ In the rule ☐ In neither ☐ In both

3 The letter n is used in two ways below.

Rule: Each row has 2 chairs, so n rows have $2n$ chairs.

Equation: $2n = 8$

In which one can n stand for many different numbers?

☐ In both ☐ In the rule ☐ In the equation ☐ In neither

4 The letter n is used in two ways below.

Rule: A bus goes 20 kilometres each hour, so in n hours it goes $20n$ kilometres.

Equation: $20n = 240$

In which one does n stand for just one particular number?

☐ In neither ☐ In both ☐ In the rule ☐ In the equation

5 The letter n is used in two ways below.

Rule: Each box holds 5 cups, so n boxes hold $5n$ cups.

Equation: $5n = 60$

In which one does n stand for just one particular number?

☐ In the equation ☐ In the rule ☐ In neither ☐ In both

6 The letter n is used in two ways below.

Rule: Pens cost \$4 each, so n pens cost $4n$ dollars.

Equation: $4n = 48$

In which one can n stand for many different numbers?

☐ In neither ☐ In the equation ☐ In both ☐ In the rule

7 The letter n is used in two ways below.

Rule: Each box holds 9 cups, so n boxes hold $9n$ cups.

Equation: $9n = 108$

In which one can n stand for many different numbers?

☐ In both ☐ In neither ☐ In the equation ☐ In the rule

8 The letter n is used in two ways below.

Rule: Each row has 2 chairs, so n rows have $2n$ chairs.

Equation: $2n = 22$

In which one does n stand for just one particular number?

☐ In both ☐ In the rule ☐ In the equation ☐ In neither

9 The letter n is used in two ways below.

Rule: A bus goes 30 kilometres each hour, so in n hours it goes $30n$ kilometres.

Equation: $30n = 300$

In which one can n stand for many different numbers?

☐ In both ☐ In the equation ☐ In neither ☐ In the rule

10 The letter n is used in two ways below.

Rule: A bus goes 40 kilometres each hour, so in n hours it goes $40n$ kilometres.

Equation: $40n = 320$

In which one can n stand for many different numbers?

☐ In the equation ☐ In the rule ☐ In neither ☐ In both

Distinguish a varying quantity from a fixed unknown

1 In the rule

2 In the equation

3 In the rule

4 In the equation

5 In the equation

6 In the rule

7 In the rule

8 In the equation

9 In the rule

10 In the rule