

# Distinguish a varying quantity from a fixed unknown

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

Rule: Pens cost \$8 each, so  $n$  pens cost  $8n$  dollars.

Equation:  $8n = 80$

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

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

**2** The letter  $n$  is used in two ways below.

Rule: Pens cost \$7 each, so  $n$  pens cost  $7n$  dollars.

Equation:  $7n = 21$

In which one can  $n$  stand for many different numbers?

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

**3** The letter  $n$  is used in two ways below.

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

Equation:  $2n = 16$

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

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

**4** 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:  $50n = 450$

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

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

**5** The letter  $n$  is used in two ways below.

Rule: Each row has 6 chairs, so  $n$  rows have  $6n$  chairs.

Equation:  $6n = 66$

In which one can  $n$  stand for many different numbers?

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

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**6** The letter  $n$  is used in two ways below.

Rule: Each box holds 3 cups, so  $n$  boxes hold  $3n$  cups.

Equation:  $3n = 27$

In which one can  $n$  stand for many different numbers?

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

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**7** The letter  $n$  is used in two ways below.

Rule: Each box holds 3 cups, so  $n$  boxes hold  $3n$  cups.

Equation:  $3n = 27$

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

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

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**8** 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:  $50n = 450$

In which one can  $n$  stand for many different numbers?

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

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**9** The letter  $n$  is used in two ways below.

Rule: Pens cost \$3 each, so  $n$  pens cost  $3n$  dollars.

Equation:  $3n = 18$

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

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

**10** The letter  $n$  is used in two ways below.

Rule: A bus goes 80 kilometres each hour, so in  $n$  hours it goes  $80n$  kilometres.

Equation:  $80n = 720$

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

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

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1 In the equation

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3 In the equation

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5 In the rule

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7 In the equation

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9 In the equation

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2 In the rule

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4 In the equation

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6 In the rule

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8 In the rule

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10 In the equation