

Algebra 4 - finding variables

Practise

Find numbers that make the following calculations correct:

- 1) $Cd = 90$
- 2) $Ab = 32$
- 3) $D + g = 54$
- 4) $F + d + h = 62$
- 5) $S - f = 21$
- 6) $ab = 40$

Fluency

1) Find five missing values for the equation below:

$$8x + 5 = y$$

2) Find five missing values for the equation below:

$$2x - 4 = y$$

Reasoning

1) $Ab = 9$

Dean says "a and b must both be odd numbers."

Do you agree? Prove it?

2) Draw bar models to represent the following equations:

$$3f + g = 20$$

$$7a + 3b = 40$$

Problem Solving

1) Lollipops come in bags of 5 and chocolate bars come in packs of 4. Mr Smith needs to buy 79 individual sweets in total.

How many different combinations of lollipops and chocolate bars could he buy? Can you write the equation that shows this problem?

2) The volume of a cuboid is 152cm cubed. The length of the cuboid is 8cm. What could the width and depth of the cuboid be?

Algebra Answers 4

Practise

Find numbers that make the following calculations correct:

- 1) Answers will vary
- 2) Answers will vary
- 3) Answers will vary
- 4) Answers will vary
- 5) Answers will vary
- 6) Answers will vary

Fluency

- 1) Answers will vary
- 2) Answers will vary

Reasoning

- 1) Agree - Will both be odd numbers
- 2) Bars should show number of bars below with the top bar above being the answer

Answers may vary

Problem Solving

- 1) Answers will vary
- 2) 19 and 1 or two decimal numbers that multiply together to make 19