

1. Solve

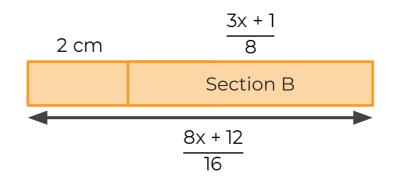
a)
$$\frac{10a}{5} - \frac{8a}{5} = 8$$

b)
$$\frac{20b + 5}{10} - \frac{5b}{10} = 2$$

c)
$$\frac{2y^3 + 3}{3} - \frac{y^3}{3} = 10$$

d)
$$\frac{7-2z}{2} - \frac{3z+5}{2} = 16$$

2. Jeremy has a length of wood. He knows that if he cuts section B from the wood he has 2 cm left.



Find the value of x.



3. Solve the equations.

a)
$$\frac{6a}{10} - \frac{a}{5} = 7$$

b)
$$\frac{6+b}{4} - \frac{2b}{12} = 3$$

c)
$$\frac{3c}{4} - \frac{2c+1}{5} = 4$$

4. Jess is solving

$$\frac{5+3b}{4} - \frac{2b}{12} = 0.5$$

Here is her working out.

$$\frac{15 + 9b}{12} - \frac{2b}{12} = 0.5$$

$$15 + 9b - 2b = 24$$

$$15 + 7b = 24$$

$$b = \frac{7}{9}$$

What two mistakes has she made?



Answers



1. Solve

a)
$$\frac{10a}{5} - \frac{8a}{5} = 8$$

b)
$$\frac{20b + 5}{10} - \frac{5b}{10} = 2$$

$$b = 1$$

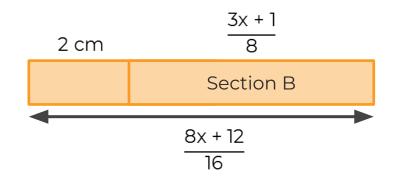
c)
$$\frac{2y^3 + 3}{3} - \frac{y^3}{3} = 10$$

$$y = 3$$

d)
$$\frac{7-2z}{2} - \frac{3z+5}{2} = 16$$

$$z = -6$$

2. Jeremy has a length of wood. He knows that if he cuts section B from the wood he has 2 cm left.



Find the value of x.

$$X = 11$$



3. Solve the equations.

a)
$$\frac{6a}{10} - \frac{a}{5} = 7$$

b)
$$\frac{6+b}{4} - \frac{2b}{12} = 3$$

$$b = 18$$

c)
$$\frac{3c}{4} - \frac{2c+1}{5} = 4$$

$$c = 12$$

4. Jess is solving

$$\frac{5+3b}{4} - \frac{2b}{12} = 0.5$$

Here is her working out.

$$\frac{15 + 9b}{12} - \frac{2b}{12} = 0.5$$

$$15 + 9b - 2b + 24$$

$$0.5 \times 12 = 6$$

$$15 + 7b = 24$$

$$b = \frac{7}{9}$$
 $b = \frac{9}{7}$

What two mistakes has she made?

