

# Solving equations involving adding two fractions



# Solving equations involving adding fractions

1. Solve

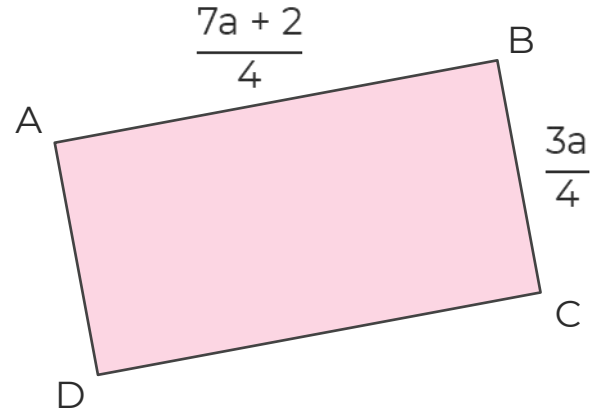
a)  $\frac{a}{5} + \frac{3a}{5} = 20$

b)  $\frac{2+b}{10} + \frac{9b}{10} = 0.5$

c)  $\frac{y^2+4}{4} + \frac{y^2-4}{4} = 23$

d)  $\frac{7-2z}{2} + \frac{3z+5}{2} = \frac{1}{2}$

2. The perimeter of the rectangle is 31 cm.



Calculate the length of side BC.



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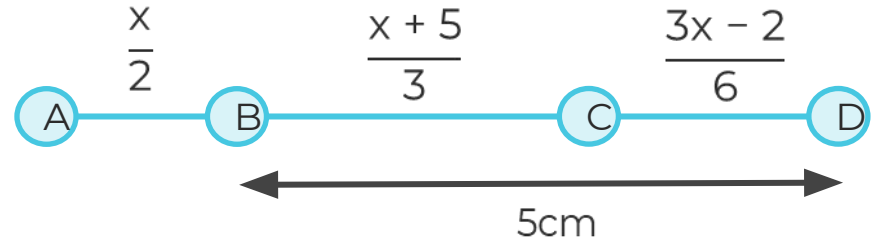
3. Solve the equations.

a)  $\frac{6a}{10} + \frac{a}{5} = 21$

b)  $\frac{6+b}{6} + \frac{5b}{18} = 2$

c)  $\frac{3c}{30} + \frac{2+c}{3} = 5$

4. The distance from B to D is 5 cm.



Find the distance from A to B.



# Answers



# Solving equations involving adding fractions

1. Solve.

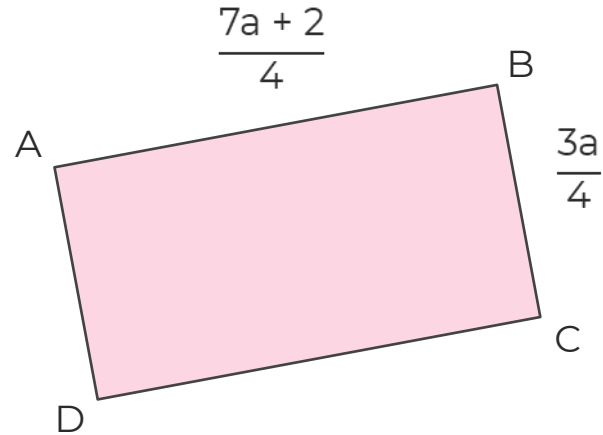
$$a) \frac{a}{5} + \frac{3a}{5} = 20 \quad a = 25$$

$$b) \frac{2+b}{10} + \frac{9b}{10} = 0.5 \quad b = 0.3$$

$$c) \frac{y^2+4}{4} + \frac{y^2-4}{4} = 32 \quad y = 8$$

$$d) \frac{7-2z}{2} + \frac{3z+5}{2} = \frac{1}{2} \quad z = -7$$

2. The perimeter of the rectangle is 31 cm.



Calculate the length of side BC.

$$BC = 4.5 \text{ cm}$$



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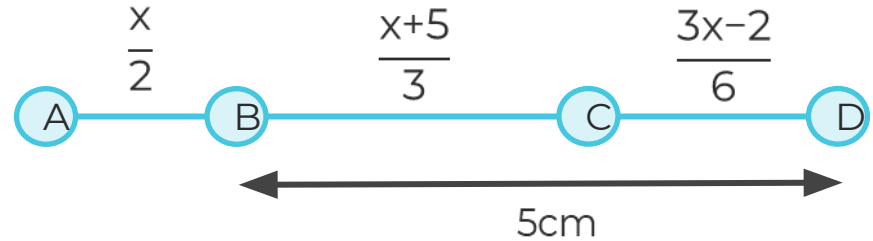
3. Solve the following equations.

a)  $\frac{6a}{10} + \frac{a}{5} = 21$        $a = 15$

b)  $\frac{6+b}{6} + \frac{5b}{18} = 2$        $b = 2.25$

c)  $\frac{3c}{30} + \frac{2+c}{3} = 5$        $c = 10$

4. The distance from B to D is 5 cm.



Find the distance from A to B.

$AB = 2.2 \text{ cm}$

