

Name:

ANSWERS!

Class:



Communication



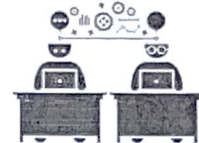
Successful Partnership



Encouragement

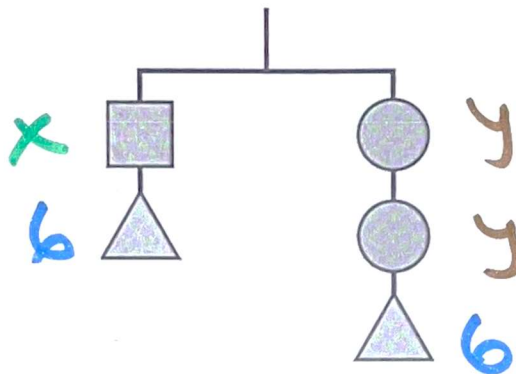


Solving Problem Together



Collaboration

Question 01



Part A

Write an equation for the model above. Each square is  $x$ . Each circle is  $y$ . Each triangle is  $6$ .

$$x + 6 = 2y + 6 \quad \text{or} \quad x = 2y$$

Part B

Solve for  $x$  if  $y=4$ 

$$x = 2y \rightarrow x = 2(4) \rightarrow x = 8$$

Part C

Solve for  $y$  if  $x=10$ 

$$x = 2y \rightarrow 10 = 2y \rightarrow y = 5$$

Part D

Solve for  $x$  if  $y=8$ 

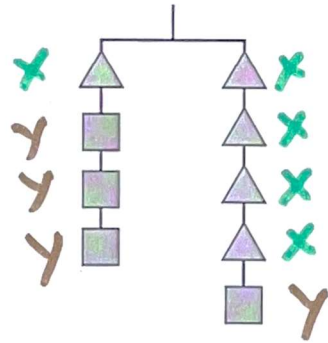
$$x = 2y \rightarrow x = 2(8) \rightarrow x = 16$$

Part E

Solve for  $y$  if  $x=14$ 

$$x = 2y \rightarrow 14 = 2y \rightarrow y = 7$$

Question 02



Part A Write an equation for the model above. Each triangle is  $x$ . Each square is  $y$ .

$$x + 3y = 4x + y \quad \text{or} \quad 2y = 3x$$

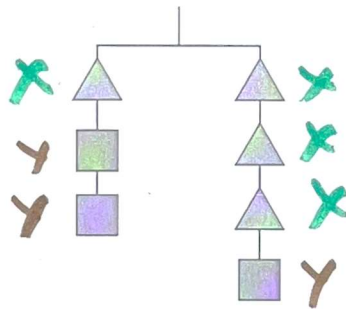
Part B Solve for  $x$  if  $y=6$

$$2y = 3x \rightarrow 2(6) = 3x \rightarrow 12 = 3x \rightarrow x = 4$$

Part C Solve for  $y$  if  $x=10$

$$2y = 3x \rightarrow 2y = 3(10) \rightarrow 2y = 30 \rightarrow y = 15$$

Question 03



Part A Write an equation for the model above. Each triangle is  $x$ . Each square is  $y$ .

$$x + 2y = 3x + y \quad \text{or} \quad y = 2x$$

Part B Solve for  $x$  if  $y=6$

$$y = 2x \rightarrow 6 = 2(x) \rightarrow x = 3$$

Part C Solve for  $y$  if  $x=10$

$$y = 2x \rightarrow y = 2(10) \rightarrow y = 20$$