

Incorrect Order of Operations - Talk Partner

I can solve reasoning questions involving the order of operations.



Match the incorrect operation to the explanation. Explain your reasoning to your partner.

$$\begin{aligned}27 - 16 \div 2 + 2 \\27 - \underline{16 \div 4} \\27 - 4 = 23\end{aligned}$$

This person hasn't used the order of operations to complete the question.

$$\begin{aligned}(3 + 7) \div 2 \\ \underline{3 + 7} \div 2 = 6.5\end{aligned}$$

This person has an awareness of BODMAS. As addition and subtraction are 'sister calculations', they should be carried out from left to right.

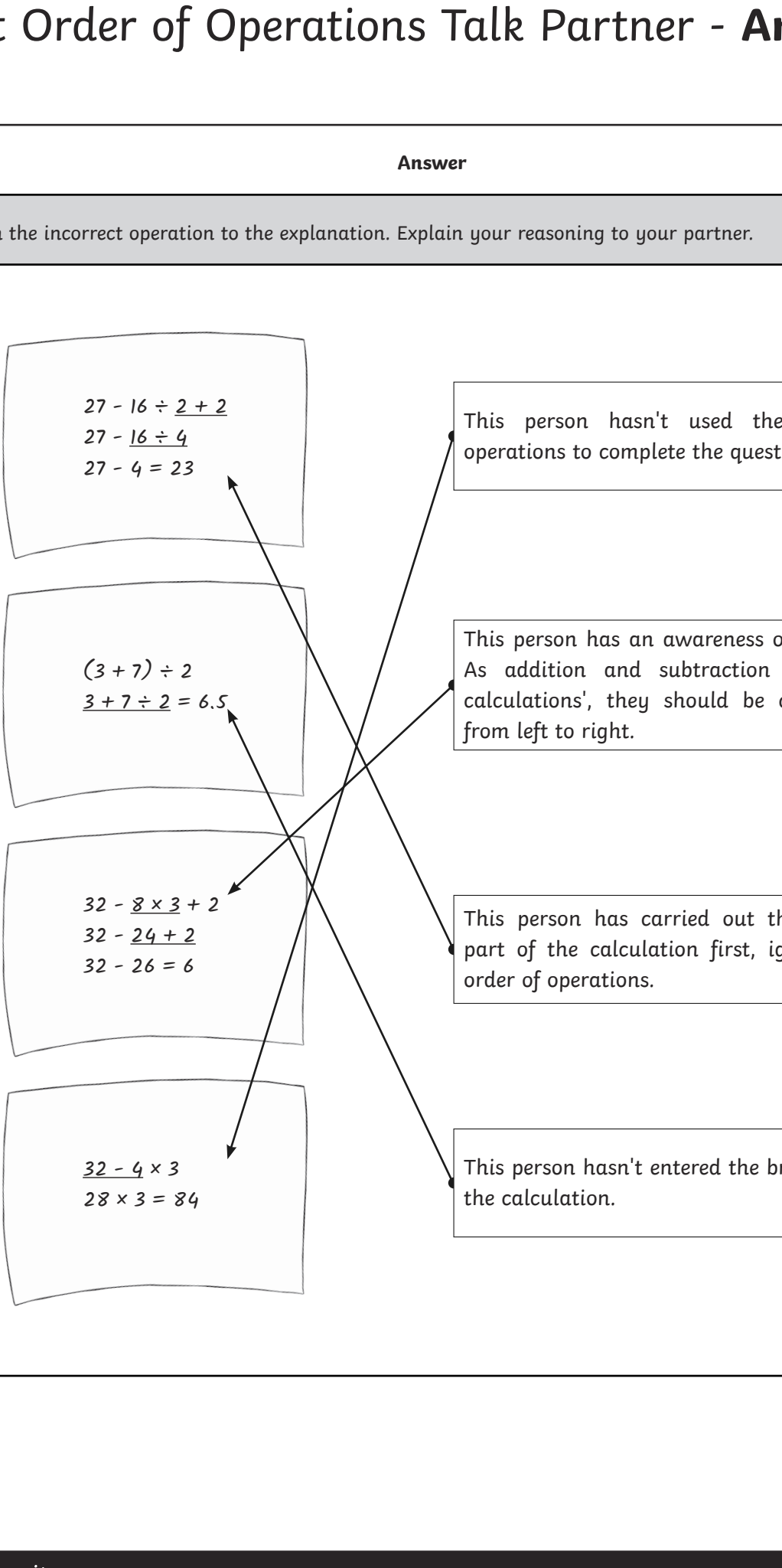
$$\begin{aligned}32 - 8 \times 3 + 2 \\32 - \underline{24 + 2} \\32 - 26 = 6\end{aligned}$$

This person has carried out the addition part of the calculation first, ignoring the order of operations.

$$\begin{aligned}\underline{32 - 4} \times 3 \\28 \times 3 = 84\end{aligned}$$

This person hasn't entered the brackets into the calculation.

Incorrect Order of Operations Talk Partner - Answers

Question	Answer
Match the incorrect operation to the explanation. Explain your reasoning to your partner.	
 <p>The image shows four handwritten student calculations, each in a separate box. Arrows connect each calculation to a corresponding explanation box on the right.</p> <ul style="list-style-type: none">Calculation 1: $27 - 16 \div 2 + 2$ $27 - 16 \div 4$ $27 - 4 = 23$ Arrow points to the top explanation box.Calculation 2: $(3 + 7) \div 2$ $3 + 7 \div 2 = 6.5$ Arrow points to the second explanation box.Calculation 3: $32 - 8 \times 3 + 2$ $32 - 24 + 2$ $32 - 26 = 6$ Arrow points to the third explanation box.Calculation 4: $32 - 4 \times 3$ $28 \times 3 = 84$ Arrow points to the bottom explanation box. <p>Explanation Boxes:</p> <ul style="list-style-type: none">Top box: This person hasn't used the order of operations to complete the question.Second box: This person has an awareness of BODMAS. As addition and subtraction are 'sister calculations', they should be carried out from left to right.Third box: This person has carried out the addition part of the calculation first, ignoring the order of operations.Bottom box: This person hasn't entered the brackets into the calculation.	