Percentages Tick or Trash

Who is correct? Jenny or Joshua? Prove it by showing the correct working

Extension: Can you explain what mistake was made?

No	Question	Working	Jenny	Joshua
1	Order these smallest to biggest: 0.5, 3/4 , 20%, 1/10		0.5, 1/10, 3/4, 20%	1/10, 20%, 0.5, 3/4
2	Find 45% of 80		36	178
3	What is bigger? 86% of 90 90% of 85		86% of 90	90% of 85
4	What is 3% as a decimal?		0.3	0.03
5	What is 1.7 as a percentage?		170%	17%
6	There are 35 choc and caramel sweets in a bag. 20% are caramel. How many are choc?		7	28
7	£72 trainers are reduced by 15% in the sale. How much are they now?		£10.80	£61.20
8	A 330ml can of pop has 10% extra free. How much is in it now?		363ml	340ml
9	A jacket costs £60 in the sale. If the discount was 20%, how much was it full price?		£72	£75
10	There are 30 pupils in a class. 30% walk, 1/6 cycle, how many come by bus?		16	14

Percentages Tick or Trash: Solutions

Extension: Can you explain what mistake was made?

No	Question	Error	Jenny	Joshua
1	Order these smallest to biggest: 0.5, 3/4 , 20%, 1/10		0.5, 1/10, 3/4, 20%	1/10, 20%, 0.5, 3/4
2	Find 45% of 80	Jenny: 80 × 45 ÷ 100 Joshua: 80 × 100 ÷ 45	36	178
3	What is bigger? 86% of 90 90% of 85	Consider the actual calculations: 90 × 86 ÷ 100 90 × 85 ÷ 100	86% of 90	90% of 85
4	What is 3% as a decimal?	Jenny divided by 10 not 100	0.3	0.03
5	What is 1.7 as a percentage?	Joshua multiplied by 10, not 100	170%	17%
6	There are 35 choc and caramel sweets in a bag. 20% are caramel. How many are choc?	Jenny found the number of caramels, not choc	7	28
7	£72 trainers are reduced by 15% in the sale. How much are they now?	Jenny found the discount, not the price	£10.80	£61.20
8	A 330ml can of pop has 10% extra free. How much is in it now?	Josh added on 10, not calculated 10%	363ml	340ml
9	A jacket costs £60 in the sale. If the discount was 20%, how much was it full price?	Jenny found 20% of 60 and added it on	£72	£75
10	There are 30 pupils in a class. 30% walk, 1/6 cycle, how many come by bus?	Joshua found the total number who walked and cycled	16	14