Grade 8 find the mistake

NAME	DATE	SCORE / 8

Check each answer. If it is wrong, find the mistake.

1 Ben says $4^{12} \div 4\square = 4^{2}\square$. Is Ben right?

- ◯ No, it is $4\square$
- ◯ Yes, Ben is right
- ◯ No, it is $1\square$

2 Dev says $2.9 \times 10\square$ written in standard form is 29,000. Is Dev right?

- ◯ No, it is 290,000
- ◯ No, it is 2,900,000
- ◯ Yes, Dev is right

3 A toy car goes 5 inches per second. 1 foot is 12 inches and 1 minute is 60 seconds. Ivy says that is 300 feet per minute, because $5 \times 60 = 300$. What is that rate, in feet per minute?

4 Cleo says $7^{2} \times 7\square = 7\square$. Is Cleo right?

- ◯ No, it is $49\square$
- ◯ Yes, Cleo is right
- ◯ No, it is $7^{1}\square$

5 A car travels at 25 meters per second. Leo says this speed is 1.5 kilometers per hour. Is Leo right?

- ◯ No: the speed is 90 kilometers per hour
- ◯ No: the speed is 90000 kilometers per hour
- ◯ Yes: the speed is 1.5 kilometers per hour

6 Some pizza is shared equally. With 12 friends, each friend gets 4 slices. Noah says each friend gets 2 slices with 6 friends, because $4 \div 12 \times 6 = 2$. How many slices does each friend get with 6 friends?

7 Maya writes 0.777... as a fraction in lowest terms and gets $\frac{7}{9}$. Is Maya right?

- ◯ Yes: the answer is $\frac{7}{9}$
- ◯ No: the answer is $\frac{7}{10}$

8 A coat costs $380. The price is cut by 20%. Later, the new price is raised by 20%. Maya says the final price is $380, because the two changes cancel out. What is the final price of the coat, in dollars?

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1 No, it is 4□	**2** No, it is 290,000	**3** 25
4 Yes, Cleo is right	**5** No: the speed is 90 kilometers per hour	**6** 8
7 Yes: the answer is $\frac{7}{9}$	**8** 364.80	