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 metres per second. Leo says this speed is 1.5 kilometres per hour. Is Leo right?

- ◯ No: the speed is 90 kilometres per hour
- ◯ No: the speed is 90000 kilometres per hour
- ◯ Yes: the speed is 1.5 kilometres 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 kilometres per hour	6	8
7	Yes: the answer is $\frac{7}{9}$	8	364.80		