

Grade 8 find the mistake

NAME	DATE	SCORE / 8
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Check each answer. If it is wrong, find the mistake.

1 Ben says $4^{12} \div 4^8 = 4^2$. Is Ben right?

- ☐ No, it is 4^8 ☐ Yes, Ben is right
☐ No, it is 1^8

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?

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

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 $\frac{7}{10}$

2 Dev says 2.9×10^8 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

4 Cleo says $7^2 \times 7^8 = 7^8$. Is Cleo right?

- ☐ No, it is 49^8 ☐ Yes, Cleo is right
☐ No, it is 7^{10}

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?

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