

Grade 6 find the mistake

NAME	DATE	SCORE
		/8

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

- 1** Cleo says that when $x = 2$, the value of $2x^3$ is 16. Is Cleo right?
- ☐ No, the value is 64 ☐ No, the value is 12
- ☐ Yes, Cleo is right

- 2 Ivy says $9:2 = 15:8$, because 6 is added to both numbers. Fill in the box to make the ratios equivalent: $9:2 = \boxed{}:8$

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- 3 Leo has read 88 pages of a book. That is 25% of the pages in the book. Dev says the book has 22 pages, because 25% of 88 is 22. How many pages are in the book?

- 4** The ratio of boys to girls in a club is 4:5. There are 12 boys in the club. Ana says there are 13 girls, because 5 is 1 more than 4, and $12 + 1 = 13$. How many girls are in the club?

- 5 Leo writes $12 + 9$ as the greatest common factor times a sum: $3(4 + 9)$. Is Leo right?
- ☐ No, it is $3(4 + 3)$ ☐ No, it is $3(12 + 9)$
- ☐ Yes, Leo is right

- 6** These numbers are in order: 6, 9, 12, 16, 16, 17, 19, 19, 21, 23, 26, 29. Ivy says the interquartile range is 23, because $29 - 6 = 23$. What is the interquartile range of these numbers?

- 7** Leo says $3 + 4^2 = 11$. Find Leo's mistake. What is the correct value of $3 + 4^2$?

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- 8** Noah divides to write $\frac{2}{5}$ as a decimal and gets 0.4. Is Noah right?
- ☐ Yes: the answer is 0.4
- ☐ No: the answer is 2.5
- ☐ No: the answer is 0.25

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1	Yes, Cleo is right	2	36	3	352
4	15	5	No, it is $3(4 + 3)$	6	8
7	19	8	Yes: the answer is 0.4		