

Get Ready!

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Adding Rational Numbers

Find each sum.

1. $6 + (-6)$

2. $-8 + 6$

3. $5.31 + (-7.40)$

4. $-1.95 + 10$

5. $7\frac{3}{4} + (-8\frac{1}{2})$

6. $-2\frac{1}{3} + 3\frac{1}{4}$

7. $6\frac{2}{5} + 4\frac{3}{10}$

8. $-1\frac{5}{6} + 5\frac{1}{3}$

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Subtracting Rational Numbers

Find each difference.

9. $-28 - 14$

10. $61 - (-11)$

11. $-16 - (-25)$

12. $-6.2 - 3.6$

13. $-5\frac{2}{3} - (-2\frac{1}{3})$

14. $-2\frac{1}{4} - 3\frac{1}{4}$

15. $2\frac{2}{3} - 7\frac{1}{3}$

16. $\frac{5}{2} - \frac{13}{4}$

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Multiplying and Dividing Rational Numbers

Find each product or quotient.

17. $-3 \cdot 7$

18. $-2.1 \cdot (-3.5)$

19. $-\frac{2}{3} \div 4$

20. $-\frac{3}{8} \div \frac{5}{8}$

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Using the Order of Operations

Simplify each expression.

21. $8 \cdot (-3) + 4$

22. $3 \cdot 4 - 8 \div 2$

23. $1 \div 2^2 - 0.54 + 1.26$

24. $9 \div (-3) - 2$

25. $5(3 \cdot 5 - 4)$

26. $1 - (1 - 5)^2 \div (-8)$

27. **Reasoning** Why don't the expressions $3 + 5^2 \cdot 3 \div 15$ and $(3 + 5^2) \cdot 3 \div 15$ yield the same answer?



Looking Ahead Vocabulary

28. The current of a river flows north at a *constant* rate. What is the constant in the mathematical expression $3x + 5y + 3$?
29. Before signing a contract, you must review the *terms* and conditions of the contract. How many terms are there in the surface area formula below?
- $$2(\ell w + wh + h\ell)$$
30. Engineers *evaluate* the efficiency of the memory and speed of a computer. What does evaluate mean in mathematics?
31. Smiling is a facial *expression* of happiness or contentment. In math, what is the expression that represents the quotient of 3 and 3 less than a number?