



QuickCheck

Simplify.

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|------------------------------------------------------------------------|--------------------------------------------------------------------|
| 1. $15.7 + (-3.45)$ 12.25 | 2. $-18.54 - (-32.05)$ 13.51 |
| 3. $-9.8 \cdot 6.75$ -66.15 | 4. $4 \div (-0.5)$ -8 |
| 5. $3\frac{2}{3} + (-1\frac{4}{5})$ $1\frac{13}{15}$ | 6. $\frac{54}{7} - \frac{26}{6}$ $3\frac{8}{21}$ |
| 7. $(\frac{6}{5})(-\frac{10}{9})$ $-1\frac{1}{3}$ | 8. $-3 \div \frac{7}{8}$ $-3\frac{3}{7}$ |
9. **CRAFTS** Felisa needs $\frac{7}{8}$ yard of one type of material to make a quilt. How much of this material will she need to make 12 quilts? **$10\frac{1}{2}$ yd**

Evaluate each power.

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|------------------------------------------------------------|-------------------------------------------------------------|
| 10. 6^3 216 | 11. $(-4)^3$ -64 |
| 12. $-(0.6)^2$ -0.36 | 13. $-(-2.5)^3$ 15.625 |
| 14. $(\frac{4}{5})^2$ $\frac{16}{25}$ | 15. $(\frac{7}{3})^4$ $\frac{2401}{81}$ |
| 16. $(-\frac{7}{10})^2$ $\frac{49}{100}$ | 17. $-(\frac{15}{2})^3$ $-\frac{3375}{8}$ |
18. **FOOD** Nate's Deli offers 3 types of bread, 3 types of meat, and 3 types of cheese. How many different sandwiches can be made with 1 type each of bread, meat, and cheese? **3^3 or 27**

Identify each statement as *true* or *false*.

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|-------------------------------------------------|--------------------------------------------------|
| 19. $-6 \geq -7$ true | 20. $8 > -5$ true |
| 21. $\frac{1}{7} \leq \frac{1}{9}$ false | 22. $\frac{5}{6} \leq \frac{25}{30}$ true |
23. **MEASUREMENT** Christy has a board that is 0.6 yard long. Marissa has a board that is $\frac{2}{3}$ yard long. Marissa states that $\frac{2}{3} > 0.6$. Is she correct? **yes**

QuickReview

Example 1 (Used in Lessons 1-1 through 1-3)

Simplify $(\frac{3}{16})(-\frac{4}{5})$.

$$\begin{aligned} (\frac{3}{16})(-\frac{4}{5}) &= -\frac{3(4)}{16(5)} \\ &= -\frac{12}{80} \\ &= -\frac{12 \div 4}{80 \div 4} \\ &= -\frac{3}{20} \end{aligned}$$

Multiply the numerators and the denominators.

Simplify.

Divide the numerator and denominator by the GCF, 4.

Simplify.

Example 2 (Used in Lesson 1-1)

Evaluate $(-1.5)^3$.

$$\begin{aligned} (-1.5)^3 &= (-1.5)(-1.5)(-1.5) \\ &= -3.375 \end{aligned}$$

$(-1.5)^3$ means 1.5 is a factor 3 times. Simplify.

Example 3 (Used in Lesson 1-5)

Identify $\frac{3}{8} > \frac{12}{24}$ as *true* or *false*.

$$\frac{3}{8} \stackrel{?}{>} \frac{12 \div 3}{24 \div 3}$$

Divide 12 and 24 by 3 to get a denominator of 8.

$$\frac{3}{8} \not> \frac{4}{8}$$

Simplify.

False; $\frac{3}{8} \not> \frac{4}{8}$ because $\frac{3}{8} < \frac{4}{8}$.