

Homework Questions p.35 #2-24 even

16, 18, 20, 24

10. $[27(-2)] \div (-3)^4$

$$-54 \div 81 = .6667$$

$$\left(-\frac{2}{3}\right)$$

16. $\frac{(-12)\left(-\frac{3}{4} - \frac{12}{24}\right)}{\frac{5}{9} \div (-10)}$

$$\frac{(-12)\left(-\frac{5}{4}\right)}{\frac{5}{9} \cdot \frac{1}{10}} = \frac{15}{-\frac{1}{18}} = 15(-18) = \left(-270\right)$$

18. $\frac{\left[\frac{4}{9} + \frac{2}{9}\right]\left[\frac{2}{3} - \frac{2}{3}\right]^2}{\frac{5}{9} \div \left(-\frac{10}{3}\right)}$

$$\frac{\left(\frac{6}{9}\right)\left(\frac{4}{3}\right)^2}{\frac{5}{9} \cdot \frac{-3}{10}} = \frac{\left(\frac{2}{3}\right)\left(\frac{16}{9}\right)}{-\frac{1}{6}} = \frac{\frac{32}{27}}{-\frac{1}{6}}$$

$$\frac{32}{927} \cdot \frac{-16^2}{1} = \left(-\frac{64}{9}\right)$$

20. $\frac{24 - 6t^2}{2} = 12 - 3t^2$
$$\left(-3t^2 + 12\right)$$

24. $\frac{-15r^3 - 5r - 5}{-5}$

$$\left(3r^3 + r + 1\right)$$

Homework Assessment

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$$6. -\frac{1}{2} \div \left(\frac{1}{4}\right) \div (-4)$$

Simplifying Expressions: putting it all together

Expressions are math statements that don't contain an equals sign. When simplifying expressions **do** what it tells you to do in the correct order.

PEMDAS

You don't do the opposite operation.
That is a method for solving equations
not simplifying expressions

$$3[9-2(5-1)]$$

$$3[9-2(4)]$$

$$3[9-8]$$

$$3(1)$$

$$\textcircled{3}$$

$$3^3-4\div 2+1$$

$$27-4\div 2+1$$

$$27-2+1$$

$$\textcircled{26}$$

your turn!

$$27\div 3-3(2)$$

$$9-6=3$$

$$(9-3)^2\div 4-1$$

$$6^2\div 4-1$$

$$36\div 4-1$$

$$9-1$$

$$8$$

$$4[5-(3^2-4)]$$

$$4[5-(9-4)]$$

$$4[5-5]$$

$$0$$

Comparing values

simplify each side and then insert the correct symbol: $<$, $>$ or $=$

$$\begin{array}{ccc}
 2^2+2^2 & < & (2^2)(2^2) \\
 4+4 & & 4 \cdot 4 \\
 8 & & 16 \\
 (18 \div 6)(3) & = & 18 \div (6 \div 3) \\
 (3)(3) & & 18 \div 2 \\
 9 & & 9
 \end{array}$$

your turn!

$$(3)(7) \quad \underline{\hspace{1cm}} \quad 12+7$$

$$27 \div 3 \quad \underline{\hspace{1cm}} \quad 3^2+2$$

Homework: p.10-11 ~~#1-24~~

2-24 even

all parts

