

Homework Questions p.35 #2-24 even

$$18, 20, 16, 22, 24$$

$$16. \frac{(-12) \left(-\frac{3}{4} - \frac{2}{2}\right)}{\frac{5}{9} \div (-10)} = \frac{(-12) \left(-\frac{5}{4}\right)}{\frac{5}{9} \cdot \frac{1}{10} \cdot 2} = \frac{15}{-\frac{1}{18}} = 15 \left(-\frac{18}{1}\right) = -270$$

$$18. \frac{\left[\frac{4}{9} + \frac{2}{9}\right] \left[\frac{2}{3} + \frac{2}{3}\right]^2}{\frac{5}{9} \div \left(-\frac{10}{3}\right)} = \frac{\left(\frac{6}{9}\right) \left(\frac{4}{3}\right)^2}{\frac{5}{9} \cdot \frac{-3}{10} \cdot 2} = \frac{\left(\frac{2}{3}\right) \left(\frac{16}{9}\right)}{-\frac{1}{6}} = \frac{\frac{32}{27}}{-\frac{1}{6}} = 9 \frac{32}{27} \cdot \frac{6}{-1} = -\frac{64}{9}$$

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

$$22. \frac{2n^2 - 2^2}{-2} = \frac{2n^2 - 4}{-2} = -n^2 + 2$$

$$24. \frac{-15r^2 - 5r - 5}{-5} = 3r^2 + r + 1$$

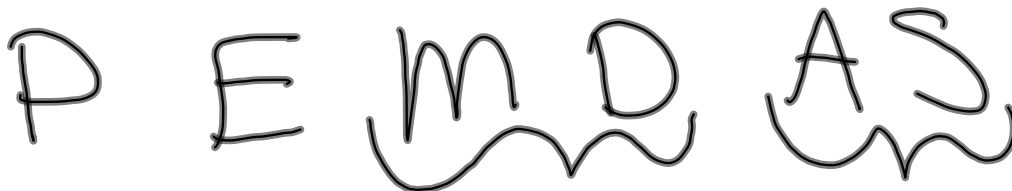
Homework Assessment
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$$6) -\frac{1}{2} \div \left(\frac{1}{4}\right) \div (-4)$$

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.

P E M D A S

The image shows the acronym PEMDAS written in a casual, handwritten style. The letters are P, E, M, D, A, and S. Underneath the letters M and D, there is a wavy underline. Similarly, underneath the letters A and S, there is another wavy underline. This visual cue indicates that multiplication and division are performed together, and addition and subtraction are performed together.

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!

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

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

$$36 \div 4-1$$

$$9-1$$

$$= \textcircled{8}$$

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

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

$$4[5-5]$$

$$4(0)$$

$$0$$

Comparing values

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

$$2^2+2^2 \underline{<} (2^2)(2^2)$$

$$\begin{array}{ccc} 4+4 & & (4)(4) \\ 8 & & 16 \end{array}$$

$$(18 \div 6)(3) \underline{=} 18 \div (6 \div 3)$$

$$\begin{array}{ccc} (3)(3) & & 18 \div 2 \\ 9 & & 9 \end{array}$$

your turn!

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

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

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

2-24 even
all parts