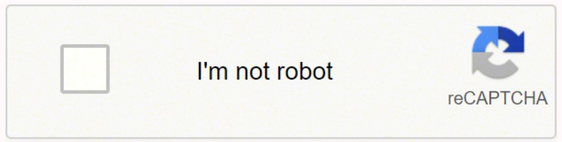
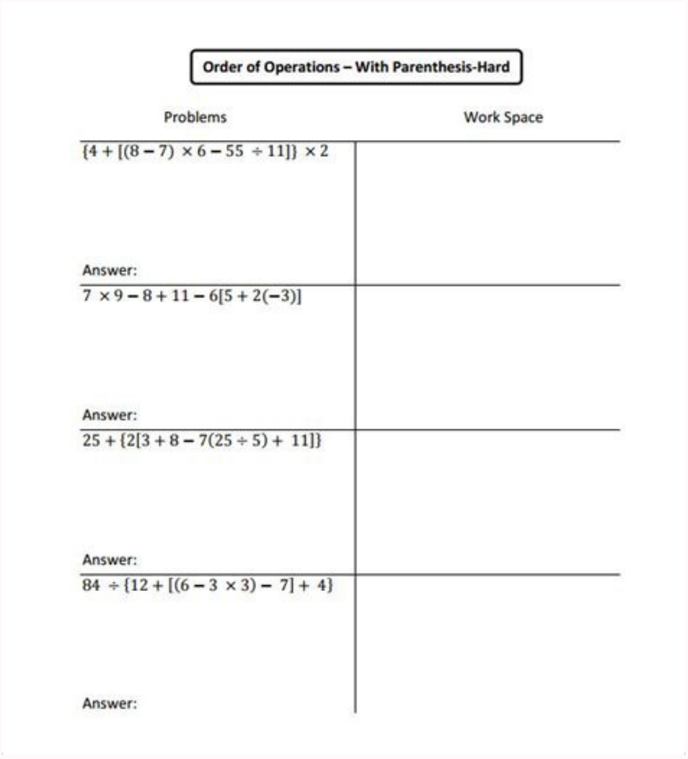


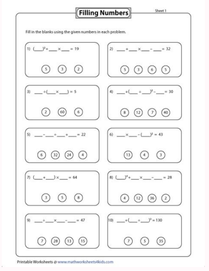
Open

Order of operations worksheets hard



Order of Operations – With Parenthesis-Hard

Problems	Work Space
$\{4+[(8-7)\times 6-55\div 11]\}\times 2$ Answer:	
$7\times 9-8+11-6[5+2(-3)]$ Answer:	
$25+\{2[3+8-7(25\div 5)+11]\}$ Answer:	
$84\div\{12+[(6-3\times 3)-7]+4\}$ Answer:	



Filling Numbers

Sheet 1

Fill in the blanks using the given numbers in each problem.

1) ___ + ___ × ___ = 79 — 5, 7, 3

2) ___ − ___ × ___ − ___ = 32 — 5, 5, 4, 5

3) ___ × ___ − ___ = 9 — 7, 10, 5

4) ___ × ___ − ___ + ___ = 35 — 4, 11, 7, 10

5) ___ − ___ × ___ × ___ = 22 — 4, 11, 10, 4

6) ___ × ___ − ___ + ___ = 43 — 11, 4, 7

7) ___ × ___ − 3 = 64 — 7, 5, 3

8) ___ + ___ × ___ − ___ = 26 — 4, 11, 10, 2

9) ___ − ___ × ___ − ___ = 47 — 7, 10, 11, 11

10) ___ × ___ − ___ + ___ = 130 — 7, 5, 10

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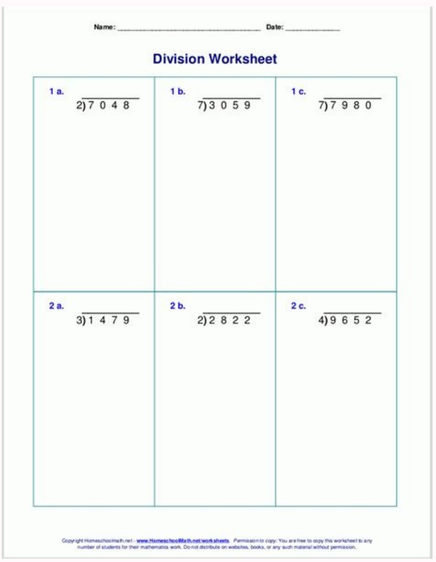

Name: _____ **Date:** _____

Division Worksheet

1 a. $2\overline{)7048}$	1 b. $7\overline{)3059}$	1 c. $7\overline{)7980}$
2 a. $3\overline{)1479}$	2 b. $2\overline{)2822}$	2 c. $4\overline{)9652}$

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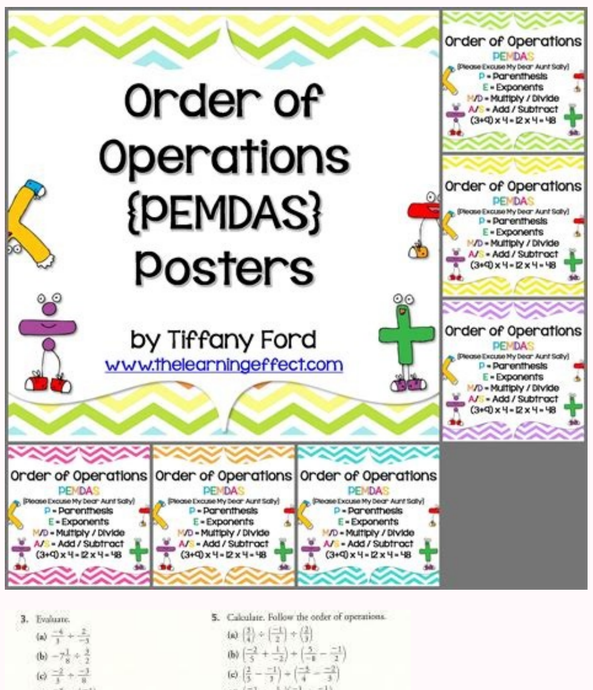

Order of Operations
PEMDAS
(Please Excuse My Dear Aunt Sally)
P = Parenthesis
E = Exponents
M/D = Multiply / Divide
A/S = Add / Subtract
(3+0) x 4 = 12 x 4 = 48

Order of Operations
PEMDAS
(Please Excuse My Dear Aunt Sally)
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E = Exponents
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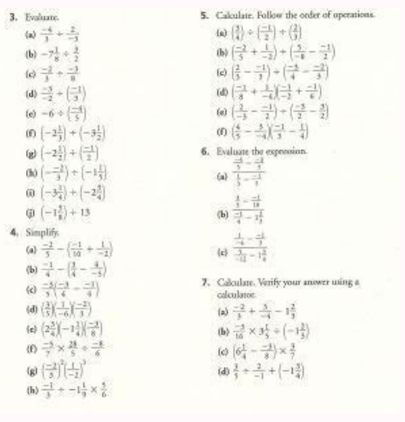
Order of Operations {PEMDAS} Posters

by Tiffany Ford
www.thelearningeffect.com



3. Evaluate.

(a) $\frac{-4}{3}\div\frac{2}{-3}$

(b) $-7\frac{1}{6}\div\frac{3}{2}$

(c) $\frac{-2}{3}\div\frac{-3}{7}$

(d) $\frac{-5}{2}\div\left(\frac{-1}{3}\right)$

(e) $-6\div\left(\frac{-4}{5}\right)$

(f) $\left(-2\frac{1}{3}\right)\div\left(-3\frac{1}{2}\right)$

(g) $\left(-2\frac{1}{2}\right)\div\left(\frac{-1}{2}\right)$

(h) $\left(-\frac{-2}{3}\right)\div\left(-1\frac{1}{3}\right)$

(i) $\left(-3\frac{1}{4}\right)\div\left(-2\frac{3}{4}\right)$

(j) $\left(-1\frac{3}{8}\right)\div 13$

4. Simplify.

(a) $\frac{-2}{5}-\left(\frac{-1}{10}+\frac{-1}{-2}\right)$

(b) $\frac{-1}{4}-\left(\frac{1}{4}-\frac{4}{-5}\right)$

(c) $\frac{-5}{3}\left(\frac{-3}{4}-\frac{-1}{4}\right)$

(d) $\left(\frac{2}{3}\right)\left(\frac{1}{-6}\right)\left(\frac{-3}{1}\right)$

(e) $\left(2\frac{2}{4}\right)\left(-1\frac{1}{4}\right)\left(\frac{-2}{8}\right)$

(f) $\frac{-5}{7}\times\frac{28}{5}\div\frac{-8}{6}$

(g) $\left(\frac{-2}{3}\right)^3\left(\frac{1}{-2}\right)^3$

(h) $\frac{-1}{3}\div-1\frac{1}{8}\times\frac{2}{6}$

5. Calculate. Follow the order of operations.

(a) $\left(\frac{3}{4}\right)\div\left(\frac{-1}{2}\right)\div\left(\frac{2}{7}\right)$

(b) $\left(\frac{-2}{5}+\frac{1}{-2}\right)\div\left(\frac{5}{8}-\frac{-1}{2}\right)$

(c) $\left(\frac{2}{3}-\frac{-1}{3}\right)\div\left(\frac{-3}{4}-\frac{-3}{3}\right)$

(d) $\left(\frac{-1}{8}+\frac{3}{-4}\right)\left(\frac{-1}{-2}+\frac{-1}{6}\right)$

(e) $\left(\frac{1}{-3}-\frac{-1}{2}\right)\div\left(\frac{-5}{2}-\frac{2}{2}\right)$

(f) $\left(\frac{6}{5}-\frac{3}{-4}\right)\left(\frac{-1}{3}-\frac{1}{4}\right)$

6. Evaluate the expression.

(a) $\frac{\frac{-6}{7}-\frac{-3}{7}}{\frac{5}{7}-\frac{-1}{7}}$

(b) $\frac{\frac{3}{4}-\frac{-1}{18}}{\frac{-1}{9}-1\frac{1}{9}}$

(c) $\frac{\frac{1}{-4}-\frac{-3}{4}}{\frac{-1}{-12}-1\frac{1}{6}}$

7. Calculate. Verify your answer using a calculator.

(a) $\frac{-2}{3}+\frac{3}{-4}-1\frac{2}{3}$

(b) $\frac{-5}{16}\times 3\frac{1}{5}\div\left(-1\frac{1}{3}\right)$

(c) $\left(6\frac{1}{4}-\frac{-3}{8}\right)\times\frac{3}{5}$

(d) $\frac{2}{3}+\frac{2}{-1}+\left(-1\frac{3}{4}\right)$

The second generator (grades 6-9) includes by default all four operations and parenthesis. This Order of Operations Worksheet will produce advanced problems for practicing order of operations calculations. Generators Below you'll find TWO worksheet generators for the order of operations. You may change this if you wish, select the degree of difficulty to be either Easy (Four Numbers and Three Operations) or Hard (Five Numbers and Four Operations). Unfortunately, the first generator does not work correctly if you include both exponents and parenthesis. Order of Operations Related Teacher Resources Here is a wide range of resources for a deeper understanding of this topic. Our Order of Operations Worksheets are free to download, easy to use, and very flexible. Again, you can include decimals or not, control the number of problems, workspace below the problems, font size, and whether there is a border around the problems. 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