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Tarea.

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Semana 1

### Ejercicios de Practica

Ej 1.6 (Numeros Pares)

Ej 1.7 (problemas del 1 al 20)

Ej. 2.2 (problemas del 1 al 30)

Ej. 2.6 (problemas del 1 al 10)

Ej 1.6 Hallar el máximo común divisor

1) 24 y 30

$$\begin{array}{r} 12 \\ 2 \overline{) 24} \\ \underline{24} \\ 0 \end{array}$$

24 = 1, 2, 4, 6, 8, 12 ...

30 = 1, 3, 5, 6, 10, ...

Máximo común es el # 6.

$$\begin{array}{r} 6 \\ 3 \overline{) 18} \\ \underline{18} \\ 0 \end{array}$$

2) 12 y 80

12 = 1, 2, 3, 4, 6, 12

80 = 1, 2, 4, 5, 8, 10, 16, 20, 40, 80

Máximo común es el # 4

$$\begin{array}{r} 17 \\ 5 \overline{) 85} \\ \underline{85} \\ 0 \end{array}$$

3) 32 y 51

32 = 1, 2, 4, 8, 16, 32

51 = 1, 3, 17, 51

Máximo común es el # 1

$$\begin{array}{r} 2 \\ 7 \overline{) 14} \\ \underline{14} \\ 0 \end{array}$$

4) 40 y 64

40 = 1, 2, 4, 5, 8, 10, 20, 40

64 = 1, 2, 4, 8, 16, 32, 64

Máximo común es el # 8

$$\begin{array}{r} 2 \\ 12 \overline{) 24} \\ \underline{24} \\ 0 \end{array}$$

5) 18 y 36

18 = 1, 2, 3, 6, 9, 18

36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

Máximo común es el # 18

6) 33 y 121

33 = 1, 3, 11, 33

121 = 1, 11, 121

Máximo común es el # 11

7) 36 y 96  
 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36  
 96 = 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96  
 Máximo común es el # 12

8) 14, 42, 84  
 14 = 1, 2, 7, 14  
 42 = 1, 2, 3, 6, 7, 14, 21, 42  
 84 = 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84  
 Máximo común es el # 14

9) 12, 68, y 92  
 12 = 1, 2, 3, 4, 6, 12  
 68 = 1, 2, 4, 17, 34  
 92 = 1, 2, 4, 23, 46  
 Máximo común es el # 4

10) 64, 48, y 120  
 64 = 1, 2, 4, 8, 16, 32, 64  
 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24, 48  
 120 = 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, 120  
 Máximo común es el # 8

11) 98 y 343  
 98 = 1, 2, 7, 14, 49, 98  
 343 = 1, 7, 49  
 Máximo común es el # 49

12) 324 y 486  
 324 = 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, 81, 108, 162  
 486 = 1, 2, 3, 6, 9, 18, 27, 54, 81, 162, 243  
 Máximo común es el # 162

Ej 1.6 Hallar el mínimo común múltiplo

13) 8 y 14  
 8 = 8, 16, 24, 32, 40, 48, 56, 64, 72, 80  
 14 = 14, 28, 42, 56, 70, 84, 98, 112, 126, 140  
 Mínimo común = 56

14) 10 y 15

10 = 10, 20, 30, 40, 50, 60  
15 = 15, 30, 45, 60, 75, 90, 105

MCM = 30

15) 8 y 20

8 = 8, 16, 24, 32, 40, 48, 56, 64  
20 = 20, 40, 60, 80, 100

MCM = 40

16) 12 y 32

12 = 12, 24, 36, 48, 60, 72, 84, 96  
32 = 32, 64, 96, 128, 160, 192

MCM = 96

17) 56 y 24

56 = 56, 112, 168, 224, 280, 336, 392  
24 = 24, 48, 72, 96, 120, 144, 168

MCM = 168

18) 30 y 45

30 = 30, 60, 90, 120, 150, 180, 210, 240, 270  
45 = 45, 90, 135, 180, 225, 270

MCM = 90

19) 4, 8, y 12

4 = 4, 8, 12, 16, 20, 24, 28, 32, 36  
8 = 8, 16, 24, 32, 40, 48, 56, 64  
12 = 12, 24, 36, 48, 60, 72, 84

MCM = 24

20) 6, 9, y 15

6 = 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90  
9 = 9, 18, 27, 36, 45, 54, 63, 72, 81, 90  
15 = 15, 30, 45, 60, 75, 90, 105

MCM = 90

21) 8, 10 y 25

8 = 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, 104, 112, 120  
10 = 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160  
25 = 25, 50, 75, 100, 125, 150, 175, 200  
128, 136, 144, 152, 160, 168, 176, 184, 192, 200

MCM = 200

12 13 24 35 6  
4 18 6 14 90  
12

4 12 24 34  
8 16 104 112  
10

22) 14, 18 y 21      MCM = 126  
 14 = 14, 28, 42, 56, 70, 84, 98, 112, 126, 140  
 18 = 18, 36, 54, 72, 90, 108, 126, 144, 162, 180  
 21 = 21, 42, 63, 84, 105, 126, 147, 168, 189, 210

23) 144 y 156      MCM = 1872  
 144 = 144, 288, 432, 576, 720, 864, 1008, 1152, 1296, 1440  
 156 = 156, 312, 468, 624, 780, 936, 1092, 1248, 1404, 1560  
 1716, 1872, 2028, 2184, 2340  
 cont... 1584, 1728, 1872

24) 343 y 2,401      MCM = 2401  
 343 = 343, 686, 1029, 1372, 1715, 2058, 2401  
 2,401 = 2401

Ej 1.7 (Problemas del 1 al 20)  
 Colocar los parentesis, si es necesario, para que la expresion sea cierta.

	Transformada
1) $3 \times 5 + 4 = 19$	$\rightarrow (3 \times 5) + 4 = 19$
2) $5 \times 2 + 3 = 25$	$\rightarrow 5(2 + 3) = 25$
3) $8 \div 2 + 1 = 5$	$\rightarrow (8 \div 2) + 1 = 5$
4) $9 + 1 \times 3 = 30$	$\rightarrow (9 + 1)3 = 30$
5) $4 + 3 \times 2 = 10$	$\rightarrow 4 + (3 \times 2) = 10$
6) $7 \times 2 - 3 = 11$	$\rightarrow (7 \times 2) - 3 = 11$

Simplificar cada una de las siguientes expresiones numericas aplicando las reglas de orden de las operaciones.

7) $5(7+2)$	8) $3+4(5+2)$	9) $9+3 \times 4$
$5(9)$	$3+4(7)$	$9+12$
<u>45</u>	$7(7)$	<u>21</u>
	<u>49</u>	

(5)

$$10) 15 \div 5 + 6$$

$$3 + 6$$

$$\boxed{9}$$

$$11) 56 \div 8 + 3 \times 2$$

$$7 + 6$$

$$\boxed{13}$$

$$12) (5-2)^2 \times (3-2)^2$$

$$(3)^2 \times (1)^2$$

$$9 \times 1$$

$$\boxed{9}$$

$$13) 3^2 \times 7 - 2^3 \div 4$$

$$9 \times 7 - 8 \div 4$$

$$63 - 2$$

$$\boxed{61}$$

$$14) 3^2 \times 10^3 + 2^3 \times 10^2 + 7 \times 10$$

$$9 \times 1000 + 8 \times 100 + 7 \times 10$$

$$9,000 + 800 + 70$$

$$\boxed{9,870}$$

$$15) 70 - 3(3^2 - 2^3) \times (3 + 4 \times 5)$$

$$70 - 3(9 - 8) \times (3 + 20)$$

$$70 - 3(1) \times 23$$

$$70 - 3 \times 23$$

$$70 - 69$$

$$\boxed{1}$$

$$16) 3(8-5)^2 - 36 \div (13-4)$$

$$3(3)^2 - 36 \div 9$$

$$3(9) - 4$$

$$27 - 4$$

$$\boxed{23}$$

$$17) 6(2+3) - 4(7-2) \div 5$$

$$6(5) - 4(5) \div 5$$

$$30 - 20 \div 5$$

$$30 - 4$$

$$\boxed{26}$$

$$18) 2[(5-3) + 4(10-7)]$$

$$2[2 + 4(3)]$$

$$2[2 + 12]$$

$$2[14]$$

$$\boxed{28}$$

$$19) 4+3[(5-2) + 2(1+3)]$$

$$4+3[3 + 2(4)]$$

$$4+3[3 + 8]$$

$$4+3[11]$$

$$4+33$$

$$\boxed{37}$$

$$20) 2[3(2+4) - 12 \div 2]$$

$$2[3(6) - 6]$$

$$2[18 - 6]$$

$$2[12]$$

$$\boxed{24}$$

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Ej 2.2 Efectuar las siguientes sumas:

$$1) 4 + 9 = 13$$

$$2) 18 + 6 = 24$$

$$3) 25 + 39 = 64$$

$$4) -4 + (-9) =$$

$$-13$$

$$5) -11 + (-7) =$$

$$-18$$

$$6) -8 + (-25) =$$

$$-33$$

$$7) -4 + 9 = 5$$

$$8) -16 + 10 = -6$$

$$9) -12 + 3 = -9$$

$$10) 4 + (-9) = -5$$

$$11) 17 + (-3) = 14$$

$$12) 27 + (-9) = 18$$

$$13) -4 + 4 = 0$$

$$14) -6 + 0 = -6$$

$$15) 0 + 12 = 12$$

$$16) -8 + (-3) = -11$$

$$17) -37 + 40 = 3$$

$$18) 7 + (-11) = -4$$

8

- 19)  $-11 + (-17) = -28$
- 20)  $-8 + 22 = 14$
- 21)  $51 + (-11) = -40$
- 22)  $75 + 23 = 98$
- 23)  $20 + (-56) = -36$
- 24)  $3 + 7 + (-8) = 10 + (-8) = -2$
- 25)  $-9 + (-4) + (-3) = -13 + (-3) = -16$
- 26)  $-3 + 2 + (-18) = -3 + (2 + (-18)) = -3 + (-16) = -19$
- 27)  $4 + 8 + (-16) = 4 + (8 + (-16)) = 4 + (-8) = -4$
- 28)  $36 + (-36) = 0$
- 29)  $16 + (-23) + (-4) = (16 + (-23)) + (-4)$
- 30)  $-21 + 5 + (-5) = (-7) + (-4) = -11$

30)  $-21 + 5 + (-5) =$   
 $-21 + (5 + (-5)) =$   
 $-21 + 0 =$   
 $-21$

9

Ej. 2.6 Simplifica cada una de las siguientes expresiones:

$$1) 2 - (8 - 10) \div 2$$

$$2 - (-2) \div 2$$

$$2 - (-2) \div 2$$

$$2 - (-1)$$

$$2 + 1 = \boxed{3}$$

$$\frac{(8-10)}{8 + (-10)} = \boxed{-2}$$

$$\boxed{-2} \div 2 = -1$$

$$2) (-3)^2 - (-2)^2 - 5$$
$$\begin{array}{r} (-3) \cdot (-3) - (-2) \cdot (-2) - 5 \\ 9 - 4 - 5 \\ 5 - 5 \\ \boxed{0} \end{array}$$

$$3) 4 - (-2)^2 + (-3)$$
$$4 - (-2) \cdot (-2) + (-3)$$
$$\cancel{44} - 4 + (-3)$$
$$\boxed{-3}$$

$$4) 4(2-7) \div 5$$

$$\cancel{4(-5)} \div 5$$

$$-20 \div 5$$

$$\boxed{-4}$$

$$4(2-7) = 2 + (-7)$$

$$4(-5) = -20$$

$$\begin{aligned}
 5) & 16 \div 2 - 9 \div 3 \\
 & (16 \div 2) - 9 \div 3 \\
 & 8 - 9 \div 3 \\
 & 8 - (9 \div 3) \\
 & 8 - 3 = \boxed{5}
 \end{aligned}$$

$$\begin{aligned}
 6) & 7 - 16 \div 4(-3) \\
 & 7 - (16 \div 4)(-3) \\
 & 7 - (4)(-3) \\
 & 7 - (-12) \\
 & 7 + 12 = \boxed{19}
 \end{aligned}$$

$$\begin{aligned}
 7) & 8 + 4 \div 2 + 8 \times 2 - 6 \div 3 \\
 & 8 + (4 \div 2) + (8 \times 2) - (6 \div 3) \\
 & 8 + (2) + (16) - (2) \\
 & 8 + 2 + 16 - 2 \\
 & 10 + 16 - 2 \\
 & 26 - 2 \\
 & \boxed{24}
 \end{aligned}$$

$$\begin{aligned}
 8) & [(-7)(3) + (-6)] \div (-9) \\
 & [-21 + (-6)] \div (-9) \\
 & [-27] \div (-9) \\
 & -27 \div (-9) \\
 & \boxed{3}
 \end{aligned}$$

no estoy  
segura de  
esta

11

$$\begin{aligned} 9) & [(-5+3) + (7-9)] \div (-2) \\ & [2 + (7+(-9))] \div (-2) \\ & [2 + (-2)] \div (-2) \rightarrow ? \end{aligned}$$

$$\begin{aligned} 10) & [(5)(-7) - (-8)] \div 3 \\ & [-35 - (-8)] \div 3 \\ & [-35 + 8] \div 3 \\ & [-27] \div 3 \\ & [-9] \leftarrow ? \end{aligned}$$

Nota: Profel, pueda que tenga algunas incorrectas...